Aramsco®

A SAFEGUARD INDUSTRIAL COMPANY

Homeland Security Products



Vol 14

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Aramsco®
A SAFEGUARD INDUSTRIAL COMPANY



On September 11, 2001, less than 4 hours after the first tower was hit at the World Trade Center, Aramsco's New York distribution facility had trucks at Ground Zero and remained available until the last contractor completed their rescue efforts. Among the agencies the Company supplied was the Pentagon, FBI, DEA, Secret Service, US Marines, National Guard and numerous private industry groups.

Several months later, at the height of the Anthrax scare, we were an integral part of the clean up projects. We were able to supply critical personal protective equipment to decon teams around the nation.

November 2004, Aramsco responded to an oil spill on the Delaware River which affected approximately 57 miles of shoreline from the Tacony-Palmyra Bridge (NJ/PA) to south of the Smyrna River (Delaware). Our corporate headquarters in New Jersey was the command center for supplying over 3,000 contractors who responded to the clean-up effort. Part of that facility was retrofitted to assist the Wildlife Rehabilitation volunteers for the treatment and cleaning of hundreds of birds and animals affected by the spill.





2005 brought the two most destructive hurricanes to hit the Gulf Coast region of the United States in recent history – Katrina and Rita. Aramsco responded by opening a warehouse in St. Rose, LA, which enabled us to have our personnel from all over the country available "24 / 7" in one central location for over 90 days straight, to aid in the relief efforts.

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New protection standards apply today…

Government and industry representatives had been working on defining standards for protective equipment to safeguard individuals against airborne terrorist attacks prior to the events of September 11, 2001. Following that day's attacks, efforts were accelerated with establishment of the National Personal Protective Technology Laboratory in Pittsburgh, which took on the role of certifying new standards for CBRN respiratory protection and clothing.

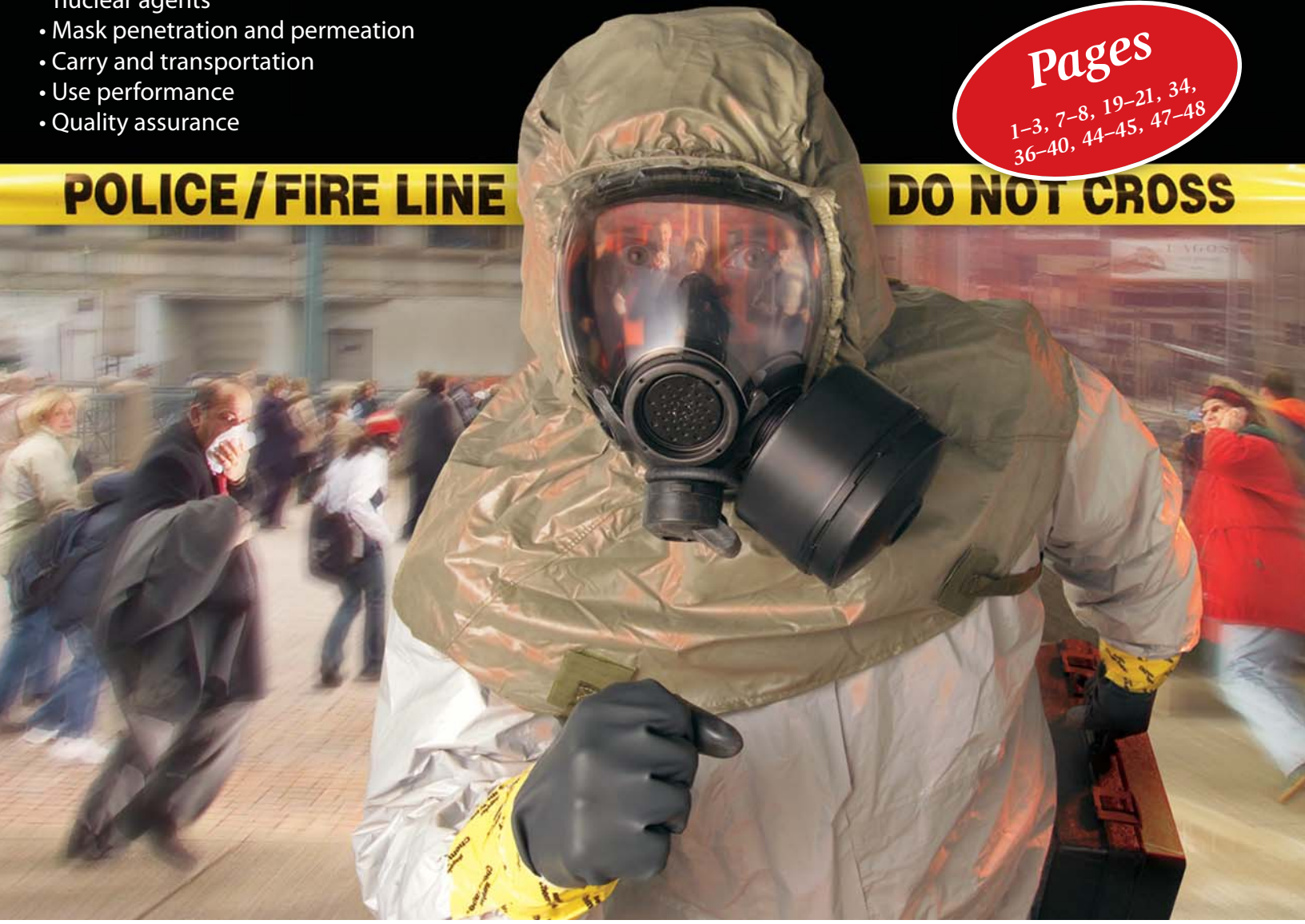
The new National Institute for Occupational Safety and Health (NIOSH) CBRN standard for full-facepiece gas masks was issued on March 7, 2003. In conjunction with U.S. Army Edgewood Chemical Biological Center it tests and approves devices as "CBRN compliant" and establishes very stringent testing and certification protocols for:

- Chemical, biological, radiological and nuclear agents
- Mask penetration and permeation
- Carry and transportation
- Use performance
- Quality assurance

The new NIOSH standards also establish:

- Performance requirements for protection against high concentrations of agents (the shortest period being 15 minutes)
- Parameters on environments and applications where masks are to be used, including warm zone environments (locations away from the highest concentrations) and crisis provisions (should terrorists deploy a secondary device as responders arrive at the scene)
- Representative degrees of agents, working on the idea that preparing for the worst potential in a family of chemicals would enable protection against the entire family of agents
- Rules for testing service life, particulate efficiency, permeation and penetration, fit factors, field of view and interoperability
- MSA has been an active participant and contributor to the process of determining these new standards and is considered to be a leading expert

Pages
1–3, 7–8, 19–21, 34, 36–40, 44–45, 47–48



Disaster Preparedness

Safety Products

NORTH

Safety Products



Pages 5, 86





A selection from North Safety's head-to-toe product offering ideally suited for Disaster Preparedness.

It is our goal to enhance worker safety, assist with regulatory compliance, and create greater worker confidence on the job.

3M

Safety Products



Pages 4–6

Being Alert, Well-Trained and Well-Equipped is the Best Policy and the Best Defense!

For Homeland Security and Public Health Personnel



PLANNING | PROTECTION | PEACE OF MIND



EMERGENCY PATIENT ISOLATION

- Rapid Deployment & Set-up
- Bio-terror/Pandemic Preparedness
- Increased Surge Capacity

Page 69

Kontrol Kube Mobile Containment Solutions

Kontrol Kubes are mobile containment and isolation units designed to be set up quickly and easily, to establish a negative pressure environment for hospital renovations, construction, or repairs; or for temporary patient isolation to control airborne particulate and pathogens.

Over the last decade the increase in multi-drug resistant organisms has caused regulatory authorities to focus heavily on standards for airborne infection isolation. The Kontrol Kube Abacus can be part of the solution when identifying ICRA requirements

Emergency containment is on the front lines of stopping the highly infectious pathogens, like MDR-TB, MRSA, Pandemic Influenza, and SARS.

The Kontrol Kube Abacus can assist in achieving compliance with CDC, CSA, APIC and JCAHO guidelines and can be purchased with HRSA Funding under Critical Benchmark 2-2. The Abacus can be set up quickly and easily, when there is a need for increased surge capacity, temporary patient isolation, or emergency containment of airborne pathogens.

FIBERLOCK
TECHNOLOGIES

KONTROLKUBE

MOBILE CONTAINMENT SOLUTIONS
KONTROLKUBE

Mobile Containment Solutions



THE SENTINEL PAPR FAMILY

A Single State-of-the-Art Blower Platform Adaptable to Multiple Applications

One Blower Two Applications

No Fit Test Required!





Sentinel XL™ CBRN



Sentinel XL™ HP

Page 7

ILC DOVER
creating what's next

GOJO® Green Certified Hand Soaps

Highly effective, environmentally preferred hand soaps

Page 79

Helps support a **clean environment** with *environmentally responsible* **packaging and formulas**



Green certified products with rich, luxurious lather

Products focused on human health and well-being through innovative and effective hand hygiene with reduced environmental impact

- Biodegradable formulas are proven effective, yet mild enough for general handwashing
- Choose from our moisturizing foam or lotion soap formulas
- Available in a variety of dispensing options including the new GOJO TFX™ Touch Free System

Certified by **Green Seal** *and by* **EcoLogo™**

GOJO®

MILITARY







Helping our military stay healthy and mission-ready!

Today's military faces many challenges in maintaining health and mission readiness. With field conditions that aren't exactly optimal, poor personal hygiene and field sanitation may result in illness and disease, which can impact a unit's ability to perform their mission.

Stay healthy and mission-ready with PURELL Instant Hand Sanitizer in the PURELL FST™ Military Bottle now with biobased content.* America's #1 hand sanitizer in a large, durable antibacterial towel is designed to look and feel like standard military equipment.

Designed for use in both tactical and non-tactical environments.

*Formulated and certified to meet the ASTM standard 6866 for biobased sanitizers produced with ethanol made from renewable natural resources.

Purell® BRAND

Reeves®
Emergency Management Systems, LLC
A DHS TECHNOLOGIES COMPANY

Reeves Emergency Management Systems (Reeves EMS) manufactures, sells and services a full line of fully-operational rapidly deployable emergency treatment facilities; decontamination shelters, patient movement equipment and accessories.

Reeves EMS mass casualty systems have been deployed as part of the U.S. Homeland Defense initiative to terrorist incident locations – including the 2001 World Trade Center site – and in disaster recovery situations, such as the 2005 Hurricane Katrina recovery effort. Additionally, a large number of mobile medical decontamination systems have been sent to emergency response organizations in the United States and around the world, including departments of the U.S. Army, Navy, Air Force and Army Reserve; state, county and local government entities; and U.S. and international corporate agencies.





Pages
61, 64, 66–68



ACSI

ADVANCED CONTAINMENT SYSTEMS INC.









Pages
61–62, 70





MSA





Pages

1–3, 7–8, 19–21, 34,
36–40, 44–45, 47–48





Table of Contents

Respiratory — Pages 1–12

Personal Protection and Clothing — Pages 13–27

Communications — Pages 28–34

Detection — Pages 35–54

Decon and Shelters — Pages 55–78

EMS – First Aid — Pages 79–86

Spill Control — Pages 87–90

Reference Guides — Pages 91–92

Index–Alpha — Pages 93–96

Index–Part Number — Pages 97–104

Escape Training Hood



- Packed in drawstring bag, not vacuum packed
- "Training Only" stenciled on hood and filter
- Double snap closure
- 11" × 5 ½" × 2 ½"

Item	Description
52759	MSA Escape Training Hood

SCape CBRN 30



The SCape CBRN 30 is the only NIOSH approved Air-purifying Escape Respirator (APER) with a built in blower that automatically actuates as the product is being removed from the protective case. This feature delivers enhanced protection and reduces the claustrophobic feelings associated with other hoods.

Tested and Proven for UNPARALLELED Protection
Protection factor testing was completed in accordance with NIOSH Laboratory Respiratory Protection Level (LRPL) test protocol. This test was conducted by the U.S. Army at the Edgewood Chemical Biological Center in Edgewood, Maryland. Results of the testing demonstrate that extremely high levels of protection are provided by SCape® CBRN30. An average fit factor1 (FF) of 97,953 was achieved for the 60 test trials. 52 of the 60 trials had an FF of 100,000 or greater. The minimum FF measured was 66,143—far exceeding the NIOSH FF requirement of 2,000 or greater.

1 Fit Factor is defined as the ratio of the challenge concentration outside the hood to the concentration inside the hood.

Automatic Blower Actuation	Fool-proof operation. Blower automatically starts when hood is removed from case. User only has to put on the hood to be protected.
One Size	Eliminates logistical issues stemming from multiple sizes
No Nosecup or Mouthbit	Eliminates sizing difficulties. Dramatically improves communication— even with telephones, cell phones and other communication devices
Blower Indicator Light	Allows users (including hearing-impaired individuals) to determine that product is operating.
Comfortable Neck Seal	One size neck seal. Beards/glasses/long hair accommodated easily. Not possible with faceseal mask. Very comfortable.
Clear Hood/Large Visor	Allows user to perform a wide range of tasks including reading, driving, etc. Total facial recognition.
Quiet 64 lpm Blower	Delivers reliable protection with minimal training. Eases physiological burden on user. Reduces claustrophobic feelings associated with other hoods. Aids breathing for those with respiratory issues (e.g. asthma)
Filter Canister	Military grade canister provides protection against a range of military agents and NIOSH TRAs (filter data). HEPA filter provides biological/ radiological/particulate protection.

Item	Description
A24333	SCape CBRN 30

Safe Escape™ CBRN 15-Minute Respirator



Clear-hood style with bonded lens and CBRN canister for 15-minute escape protection. Sized for individual fit. Packed securely in easy-open hexagonal storage case for easy group caching, with prominent end labels for easy size recognition. Optional straps attach case to belt and leg or over shoulder.

Hood-style respirator with inside-the-hood self-adjusting cradle-type head straps

- NIOSH Approved CBRN Certified
- Easily fitted; can be worn by almost anyone
- Accommodates long hair, glasses, facial hair
- Minimum of training needed
- 3 sizes: Small, Medium, Large - easily identifiable by color and letter on storage case
- Easy, quick donning
- No external straps to catch on things during escape

CBRN (Chemical, Biological, Radiological, Nuclear) high-efficiency particulate filter and activated carbon canister

- Air flows through the canister directly into the nose cup; Inlet check-valves maximize filter performance; Air exits directly through the exhalation valve
- Canister is permanently bonded to the respirator coupling nut for secure connection

Translucent hood design with 1-piece large bonded lens

- High-performance laminate hood material resists chemical attack
- Reduces claustrophobia
- Secure protection, wearer looks and sounds like self (no nose clip or mouth bit)
- No noisy (crinkling) problems of cellophane hood, so it's easy to hear emergency instructions, vehicles, etc.,
- Wide field of view for better visibility while respirator is in use

Nose cup

- Helps reduce lens fogging and carbon dioxide buildup
- 3 sizes for individual fit
- Allows communication superior to devices that use a mouth bit

Distinctive black polyethylene Hextreme™ hexagonal storage case

- Secure, yet easy to open case for immediate use
- Cases nest together, with instant identification via color code and clearly marked S, M, L on prominent end label
- Hexagonal shape promotes strong but lightweight storage, easy for group caching
- Standard respirator has color-coded labels for sizes—Small, Medium, Large; Tactical version has black and gray labels
- Foil-bagged respirator ensures protection from ambient environment
- Respirator packed securely inside case has 5-year shelf life from date of manufacture

Soft, high-stretch rubber neck seal

- Conforms to neck contours and irregularities
- Sized for individual custom fit
- Easy donning
- Comfortable, yet secure enough to provide a reliable seal

Item	Description
A17742	Safe Escape Respirator in Hextreme Case, Standard Version Size Small
A15788	Safe Escape Respirator in Hextreme Case, Standard Version Size Medium
A15789	Safe Escape Respirator in Hextreme Case, Standard Version Size Large

Millennium® CBRN

With nearly a century of history and success behind it, MSA today again stands ready to protect Americans – this time against potential airborne contaminants that could be unleashed by terrorists across our homeland.

The MSA Millennium CBRN Gas Mask meets or exceeds all performance requirements of the new NIOSH CBRN Standard by effectively removing harmful gases, vapors and particulates so that the user can confidently breathe safely. The Millennium CBRN canister contains chemical sorbents and a P100 filter to attract, retain, and neutralize contaminants.

The Millennium CBRN design is based on a highly successful military gas mask. The wearer enjoys a wide field of view and great flexibility, making it possible to safely perform any tasks required, including firing weapons if needed. The wearer can also communicate easily while wearing the Millennium CBRN Gas Mask.

The mask is lightweight and provides a tight seal on the face. A nose cup is also incorporated for reduced fogging of the facepiece. The material is impermeable to chemical agents such as mustard (HD), providing maximum assurance to the wearer. A butyl coated nylon hood also is available for total head protection.

Regarding interoperability, the Millennium CBRN Gas Mask is designed as a system and while the thread and gasket are designed to meet the requirements of the standard, only the manufacturer's assemblies are tested and certified. The mask also permits hydration once the wearer has moved to an uncontaminated area.



- Six-point head harness means easy donning, adjustment and removal with no hair pulling
- Flexible, one-piece polyurethane lens eliminates uncomfortable pressure points
- Canister inlet ports on left or right side enables weapon sighting from either side
- Super-soft black Hycar rubber exceeds CBRN permeation requirements

Canister Test Challenge and Test Breakthrough Concentrations*

	Test Concentration (ppm)	NIOSH Allowable Breakthrough*
HD-Vapor	50 mg/m^3	3 mg/m^3
GB	210 mg/m^3	1.05 mg/m^3
Ammonia	2500	12.5 ppm
Cyanogen Chloride	300	2 ppm
Cyclohexane	2600	10 ppm
Formaldehyde	500	1 ppm
Hydrogen Cyanide	940	4-7 ppm[1]
Hydrogen Sulfide	1000	5 ppm
Nitrogen Dioxide	200 or 25 ppm	1 ppm NO^2 NO^2
Phosgene	250	1.25 ppm
Phosphine	300	0.3 ppm
Sulfur Dioxide	1500	5 ppm

1. Sum of HCN and CaN2.

2. Nitrogen Dioxide breakthrough is monitored for both NO^2 and NO.

The breakthrough is determined by which quantity, NO^2 or NO, reaches breakthrough first.

* Table 3 from "Statement of Standard for Chemical, Biological, Radiological and Nuclear (CBRN) Full Facepiece Air Purifying Respirator (APR)," revision 1; March 17, 2003.

This chart shows the test representative chemicals for CBRN approved and represents roughly 150 potential chemical compounds.

Item	Description
52816	Millennium Facepiece without Canister Size Small
52817	Millennium Facepiece without Canister Size Medium
52818	Millennium Facepiece without Canister Size Large
52686	MSA CBRN Canister
52574	CBA-RCA Canister for Millennium Masks

Lens Outsert for Millennium Facepiece

Polycarbonate lens outsert snaps into place over Millennium or Advantage 1000 facepiece lens, providing additional impact protection. Tinted outsert helps conceal identity (suitable only when sufficient light exists).



Item	Description
52657	10008907 Lens Outsert, Small, Clear
52658	10008906 Lens Outsert, Medium/Large, Clear
52659	10008909 Lens Outsert, Small, Tinted
52660	10008908 Lens Outsert, Medium/Large, Tinted
52666	816137 Spectacle Kit for Advantage 1000 and Millennium Gas Masks
44014	Universal Gas Mask Bag

Hood

All skin should be covered when encountering any suspect CW substance. Some customers will be buying suits that completely cover the skin, although they are not complete containment suits. They will cinch down around the lens of the gas mask. A butyl hood, which protects against liquids, may work as additional protection.



Item	Description
52656	305022 Butyl-Coated Nylon Hood

600 Denier Nylon Tactical Hood Bag

- Designed to fit MSA Tactical Escape Hood
- Belt holder
- Adjustable leg Straps
- Double snap closure
- 11" × 5 ½" × 2 ½"



Item	Description
40815	Tactical Hood Bag

Universal Gas Mask Bag

Tactical Cordova Black Nylon carrying bag designed to fit a gas mask and one cartridge. Includes shoulder strap, Velcro® closures, Velcro® extension to mount on service belt and secure to thigh or using extension to secure on lower leg.



Item	Description
44014	Universal Gas Mask Bag

On-The-Move Hydration System



Gas Mask Connection: The system is equipped with a patented inline connection which permits the user to rapidly connect directly to the Millennium® mask, the M-40 series military masks or other gas masks utilizing the same hydration connection. The connection is located on the drink tube about 4 inches from the on-off valve and bite valve. A tethered dust cover protects the connection port from dirt and contaminates when not in use.

When connection is made from the mask to the inline connector, water flow to the bite valve is shut off and is redirected to the mask. Upon disconnection of mask from hydration system, the water flow to the bite valve is restored and water flow to the gas mask connection port is shut off.

Bite Valve: The bite valve is equipped with a 90 degree rotary on-off valve which provides positive water shut off when required and is easily operated with one hand. The bite valve provides a high flow rate of water when in use and drip free operation when not in use. It is made of food grade silicone rubber and is easily disassembled and reassembled for ease of cleaning.

Reservoir: The reservoir features a patented, heavy duty, wide-opening zip closure. This makes it quick and easy to fill with water, add ice cubes or drink mixes, and thoroughly clean and dry. It has a 100 fluid ounce/3.0 liter capacity. It is made of a FDA approved, food grade laminate film that imparts no taste to water. This triple laminated plastic film with polyethylene inner surface provides excellent puncture resistance and can withstand boiling and freezing.

Pack: The pack is constructed of black nylon fabric, nylon webbing and a closed cell insulating/padding material. It has adjustable 1.5 inch wide shoulder straps and a top zipper that permits the reservoir to be easily removed from the pack for filling, cleaning, drying and examination as needed.

Dimensions	17" × 9" × 1 ½" (Empty) 17" × 9" × 4" (Full)
Weight	8 lbs. (Empty) 7.1 lbs. (Full)
Capacity	100 ounces (3.0 Liters)

Item	Description
40570	On-The-Move Hydration System

Cartridges/Canisters

3M™ Cartridges and Canisters for Air Purifying Respirators for Responder Applications
Air purifying respirators (APR) can be used when the contaminant and concentration are known and below IDLH limits and sufficient oxygen is present. The maximum use concentration (MUC) in which an APR can be utilized is the product of the assigned protection factor (APF) multiplied by the airborne exposure limit (such as the TLV®). This number however must be lower than the IDLH, otherwise the IDLH becomes the MUC.

Respirator	3M System	APF
Negative Pressure, Full Facepiece APR	FR-M40 Full Facepiece Respirator, 6000DIN Full Facepiece Respirator, 7800S Full Facepiece Respirator	50[1]
PAPR with Hood, Helmet, or Tight-Fitting Full Facepiece	Breathe Easy (BE) 10 Butyl Rubber Hood, BE 10 and 6000 RRPAS	1000

Item	Description
80710-54	SP3 Training Cartridge
52685	CP3N Training Cartridge
52026	FR-15-CBRN
52716	FR-57







			SP3-Training	CP3N-Training	FR15-CBRN	FR-57
Negative Pressure Applications			TRAINING SP3	TRAINING CP3N	•	
PAPR Applications						•
NIOSH Approvals[2]	TLV[3]	IDLH Limit[4]				•
Organic Vapors	*	*			•	•
Sulfur Dioxide	2 ppm TWA , 5 ppm STEL	100 ppm			•	•
Hydrogen Chloride	5 ppm C	100 ppm			•	•
Chlorine	0.5 ppm TWA, 1 ppm STEL	30 ppm			•	•
Chlorine Dioxide	0.1 ppm TWA , 0.3 ppm STEL	10 ppm			•	•
Hydrogen Fluoride	3 ppm C	30 ppm			•	•
Ammonia	25 ppm TWA, 35 ppm STEL	500 ppm			•	•
Methylamine	5 ppm TWA, 15 ppm STEL	100 ppm			•	•
Formaldehyde	0.3 ppm	C 30 ppm			•	•
Hydrogen Sulfide[5]	10 ppm TWA, 15 ppm STEL	300 ppm			•	
Phosphine	0.3 ppm, 1 ppm STEL	200 ppm			•	
CN[6]	0.3 mg/m³TWA	101 mg/m³		•	•	
CS[6]	0.39 mg/m³C	1.9 mg/m³		•	•	
P100 Particulates[5]	*	*		•	•	
High Efficiency (HE) Particulate[7]	*	*				•
3M™ Cartridge or Canister – Common Military Agents[2]						
Negative Pressure Applications				•		
PAPR Applications						•
Military Specification Testing[8]	**TLV[3]**	**IDLH Limit[4]**				
Diethyl Methylphosphonate (DMMP)[9]	NA	NA			•	•
Hydrogen Cyanide	4.7 ppm C	50 ppm			•	•
Cyanogen Chloride	0.3 ppm C	ND			•	•
Chloropicrin	0.1 ppm TWA	4 ppm			•	•
Phosgene	0.1 ppm TWA	2 ppm			•	•
CN[6]	0.3 mg/m³TWA	101 mg/m³			•	•
CS[6]	0.39 mg/m³C	1.9 mg/m³			•	•
	OASG limit value[10]	**OASG limit value[10]**				
Sarin (GB)	0.0001 mg/m³	> 0.2 mg/m³			•	•

TWA = time weighted average, C = Ceiling Limit, STEL = short term exposure limit, NA = not applicable, ND = not determined
* Limits depend on specific contaminant. However, exposure limits have been set for particulates not otherwise classified (PNOC) and particulates not otherwise regulated (PNOR).
1 APF applies only when respirator has been quantitatively fit tested. If fit tested qualitatively, an APF of 10 applies.
2 Assumes that the criterion for using air-purifying respirators is met: the agent and concentration are known and are below maximum use concentrations and IDLH limits and sufficient oxygen is present.
3 TLV = threshold limit value from the American Conference of Governmental Industrial Hygienists. ACGIH Threshold Limit Values and Biological Exposure Indices, 2000.
4 IDLH = Immediately Dangerous to Life or Health limit. NIOSH Pocket Guide to Chemical Hazards. 1990. DHHS (NIOSH) Publication No. 90-117.
5 H2S escape only and P100 approvals are available for negative pressure, air purifying respirators only.
6 CN, CS approvals are available for tight fitting, air purifying respirators only. They are not available for respirators with loose-fitting headgear such as hoods or helmets.
7 High Efficiency (HE) particulate filter approval is available for PAPRs only.
8 Not NIOSH approved for these agents. See footnote 6 for explanation of CN and CS.
9 DMMP is a common surrogate test agent for the nerve agents.
10 TLV and IDLH Limit values have not been established for sarin. The values listed for sarin (GB) are the airborne exposure limit and the limit for which an SCBA is the only acceptable respiratory protection. The Office of the US Army Surgeon General (OASG) established these values.

CBRN Gas Mask Ensemble

NORTH Safety Products



CBRN Full Facepiece, Canister and Bag Ensemble (Chemical, Biological, Radiological and Nuclear.) NIOSH/CBRN approved mask. Highest level of protection and performance requirements. CBRN Canister can be attached to either side of mask. Wide-view lenses with 200 degree vision. Lightweight facepiece design. 40mm DIN threads allow for interoperability in an emergency. Available in overlapping small or medium/large sizes. Comes with carrying bag.

Item	Description
94120	CBRN Gas Mask with 40CBRN Canister and Carry Bag, Size Small
94119	CBRN Gas Masks with 40CBRN Canister and Carry Bag, Size Medium/Large
94123	40CBRN Canister

6000 Series RRPAS™

Rapid Response Powered Air System

3M



- This is a powered air purifying respirator (PAPR) system in which the components are stored in a unique carrying bag that transforms into a vest with the PAPR in place and ready for use with the 3M™ Canister FR-40 and 3M™ Cartridge FR-57
- Provides exceptional comfort and mobility
- Easy to don and doff
- Hook and loop fasteners allow fast and easy adjustment to individual sizes
- The power unit provides continuous flow of filtered air
- Can be used with rechargeable NiCd battery or disposable lithium battery
- Approximate weight is 10 lbs.
- Also available as belt-mounted PAPR

6000 Series Full Facepiece Respirators

Negative Pressure Respirator

3M

Offers The Flexibility Of Negative/Positive Pressure Operation



- As a negative pressure system, the 3M™ Full Facepiece 6000DIN Series full facepiece can be used with 3M™ Cartridges CP3N for tear agents and 3M™ Cartridge FR-64 for most military and industrial materials
- Can also be used with other industrial 3M™ Filters and Cartridges
- Available in small, medium and large sizes
- Comfortable, lightweight
- Flexible and durable silicone faceseal
- Provides a wide field of vision
- Easy to adjust head straps
- Can be used in negative/positive pressure applications



Item	Description
52757	3M™ Full Facepiece 6700DIN Series, Size Small
52755	3M™ Full Facepiece 6800DIN Series, Size Medium
52754	3M™ Full Facepiece 6900DIN Series, Size Large





Item	Description
52782	RRPAS Rapid Response Powered Air Purifying Respirator System, 6800DIN NiMH.Battery and FR-57 Cartridge
52783	RRPAS Rapid Response Powered Air Purifying Respirator System, 6800DIN NiMH. Battery and FR-40 Canister
52784	RRPAS Rapid Response Powered Air Purifying Respirator System, 6800DIN Lithium Battery and FR-57 Cartridge
52785	RRPAS Rapid Response Powered Air Purifying Respirator System, 6800DIN Lithium Battery and FR-40 Canister
52788	RRPAS Rapid Response Powered Air Purifying Respirator System, 6900DIN NiMH. Battery and FR-57 Cartridge
52789	RRPAS Rapid Response Powered Air Purifying Respirator System, 6900DIN NiMH.Battery and FR-40 Canister
52794	RRPAS Rapid Response Powered Air Purifying Respirator System, 6900DIN Lithium Battery and FR-57 Cartridge
52798	RRPAS Rapid Response Powered Air Purifying Respirator System, 6900DIN Lithium Battery and FR-40 Canister

All 3M™ products shown in this catalogue must be used in accordance with OSHA regulations and the user instructions, warnings, and limitations accompanying each product.

3M™ Breathe Easy™ (RBE) for Responders Powered Air Purifying (PAPR) Systems



3M™ is pleased to announce the following National Institute for Occupational Safety and Health (NIOSH) Chemical, Biological, Radiological and Nuclear (CBRN) approved 3M™ RBE PAPR Systems: 3M™ RBE-L10 with Primary Lithium Battery and 3M™ RBE-NM10 with NiMH Battery. These powered air purifying respirator systems help provide protection against CBRN particulates, gases and vapors. Uniquely designed for first responder, first receiver and public health professionals.

- Provides a continuous flow of filtered air
- The belt-mounted power unit is lightweight and comfortable
- Approximate weight is 8 lbs.

Key Benefits
- Approved to NIOSH CBRN Loose-Fitting PAPR Standard
- 3M™ Cartridge RBE-57 meets NIOSH CBRN "Cap 1" requirements against stringent test chemical agents; high efficiency particulate filtration (99.97%)
- Lightweight, one size butyl rubber hood provides a wide field of vision, no fit test requirements and ability to use with eye glasses and facial hair
- Continuously filtered airflow for maximum comfort to help workers focus on their jobs for longer periods
- System functions with two battery options:
  - Lithium Battery – up to 12 hours of use
  - NiMH Battery – up to 8 hours of use and 90% charged in 2 hours
- 3M™ duffle bag safely stores the system in one place and allows for quick access in an emergency
- 3M's™ unmatched customer service and technological expertise offers customers peace of mind

Item	Description
A33659	Breathe Easy RBE with Butyl Rubber Hood, PAPR Unit, Waist Belt, Breathing Tube and Clamp, Duffle Bag, Airflow Indicator, Cartridges with NiMH Battery
A33657	Breathe Easy RBE with Butyl Rubber Hood, PAPR Unit, Waist Belt, Breathing Tube and Clamp, Duffle Bag, Airflow Indicator, Cartridges with Lithium Battery
Accessories	
A33654	Breathing Tube, Hood
A33652	Cartridge, Hood (6/cs)
52691	Breathe Easy PAPR Unit
52795	Smart Charger, Single Unit
52763	Lithium Battery Pack
A19841	Airflow Indicator
52764	Battery Pack
52692	Belt Assembly For Breathe Easy Turbo Unit

Breathe Easy™ Training Kit and Accessories

Complete Training Kit for Breathe Easy™ PAPR Butyl Rubber Hood System purchased with lithium battery.

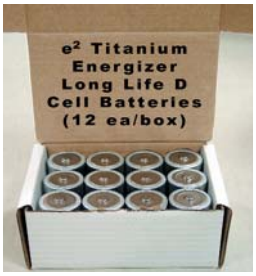
Consists of
(1) Training Battery D-Cell Pack
(2) Sets of Batteries (15 hours)
(1) Breathing Tube Assembly to fit
(1) QC TYVEK® Hood
(3) Training NBC Cartridges

Training Purposes Only



Item	Description
90966	Breathe Easy™ Training Kit
Optional Replacement Parts	
52750	Breathing Tube Assembly
52751	QC TYVEK® Hood with Cape
52384	3M™ Butyl Hood with Cape
52510	Battery Pack NiCd
52514	Battery Charger
80710-54	SP3 Training Cartridges





Tired of maintenance on your NiCd Training Batteries? Switch to a D-Cell Training Battery Pack and never worry about charging batteries again. This battery pack is for "TRAINING ONLY"—but what a savings of both time and money! D-Cell Training pack manufactured to operate the 3M BE 10 for 8 hours of "TRAINING ONLY" use. Uses 6 D-Cell Batteries (sold separately).

Item	Description
52638	D-Cell Training Battery Pack
52149	D-Cell Batteries

Branches Nationwide!
800-767-6933
www.aramsco.com
Aramsco
A SAFEGUARD INDUSTRIAL COMPANY

The Sentinel XL™ CBRN System



This state-of-the-art high performance PAPR is designed to meet the needs of first receivers and other first responders. The unit incorporates a unique "lay flat" butyl hood designed to stow neatly in a NIOSH approved backpack. The system is also NIOSH approved in a belt mounted configuration. The blower delivers high flow rates and incorporates a low voltage alarm/light to alert the user when approximately 30 minutes of acceptable battery performance remains. (NIOSH CBRN Approved TC-23C-2312).

Item	Description
A24351	The Sentinel XL™ CBRN System

The Sentinel XL™ HP System



Building on the Sentinel XL™ CBRN platform, the HP system offers a tailored solution to support infection prevention and pandemic preparedness needs. The system features a one size, conformal head cover designed to securely integrate with the 230+ lpm state-of-the-art blower. The high performance features of the Sentinel (such as the low voltage alarm/light, the NiMH integral battery pack, the durable dual chamber blower design, and the optional NIOSH approved backpack) are part of the XL™ HP system. (NIOSH Approved TC-21C-0801).

The Sentinel XL™ HP system not only eliminates the need to conduct fit testing, but offers the following benefits over other systems:

- Single size head cover eliminates need for multiple sizing simplifies the job of outfitting your staff
- Colorful head cover option creates a more "patient friendly" look (head cover also available in white)
- Quick-loc ™ belt simplifies use, adjustment, and cleaning while greatly expediting the donning process
- Low voltage alarm alerts the user when 30 minutes of battery life remain
- Sentinel HP uses the same blower as our Sentinel CBRN system which offer the most protective capacity (Cap 2) of any loose fitting PAPR
- P 100 filter elements offer the highest HEPA protection available
- Batteries and filters are easily accessible, reducing the "downtime" needed to maintain the system
- NiMH rechargeable batteries are durable, long-lasting, and maintenance free

Item	Description
A62404	Sentinel XL HP Standard System, White Hood
A62406	Sentinel XL HP Standard System, Pattern Hood

Responder™ PAPR Kits



A belt-mounted powered air-purifying respirator with choice of 2 proven tight-fitting facepieces in 3 sizes. The motor/blower provides constant air flow of a minimum 115 lpm to the facepiece via the breathing tube. Can be used with cartridge designed to meet upcoming NIOSH CBRN PAPR requirements or with the OptiFilter® XL or PAPR GME Multigas HE cartridge for tactical operations. MSA's C420 PAPR system is ideal for military and special operations personnel who need non-IDLH respiratory protection for an extended period of time. Industry trusted, with over 50,000 C420s fielded in various U.S. military programs, the C420 Motor-Blower is ideal for filtering contaminants from ambient air and providing a constant airflow of at least 115 lpm to the user's facepiece, providing a twenty times greater OSHA assigned protection factor than APR, due to positive pressure in the mask.

The C420 is available with 2 batteries that have the ability to be "hot-swapped" during warm environment use. The Lithium-Sulfur Dioxide mission battery has an 8 hour run-time. The Nickel Metal Hydride rechargeable battery (available as an accessory) has a 4 hour run-time. The motor/blower will not interfere with radio communications as it is EMI shielded to MIL-STD-461C.

The C420 Responder™ PAPR Kits come complete with: Motor-Blower, LiSO2 Battery, Breathing Tube, Belt, and Airflow Indicator.

Item	Description
A36347	Responder™ PAPR Kit with 30" Breathing Tube (facepiece and cartridges not included)
A36318	Responder™ PAPR Kit with Millennium Mask, 2 CBRN Cartridges and 30" Breathing Tube Size Small
A36320	Responder™ PAPR Kit with Millennium Mask, 2 CBRN Cartridges and 30" Breathing Tube Size Medium
A36322	Responder™ PAPR Kit with Millennium Mask, 2 CBRN Cartridges and 30" Breathing Tube Size Large
A30369	Responder™ PAPR Kit with 36" Breathing Tube (facepiece and cartridges not included)
A36323	Responder™ PAPR Kit with Millennium Mask, 2 CBRN Cartridges and 36" Breathing Tube Size Small
A36324	Responder™ PAPR Kit with Millennium Mask, 2 CBRN Cartridges and 36" Breathing Tube Size Medium
A36325	Responder™ PAPR Kit with Millennium Mask, 2 CBRN Cartridges and 36" Breathing Tube Size Large
Other Configurations Available - Please Call for Details	

CBRN Ultra Elite® Gas Mask

Setting a New Standard for the Fire Service



Two Protection Levels
Firefighters typically are the first to respond to any incident whether it is a residential fire, an accident or any unknown threat that is becoming more common in today's world. MSA was the first manufacturer to receive NIOSH's CBRN approval on an SCBA and the first to receive CBRN approval on a Gas Mask. MSA's FireHawk® Air Mask provides the maximum level of protection for CBRN environments. However, that protection is not always needed, especially outside the immediate fire scene. Once the hazard has been assessed, air-purifying respirators (APR) may make the most sense for low concentrations of certain contaminants.

One Platform
With the new Ultra Elite CBRN Gas Mask, your department benefits from using a common platform facepiece for both APR and SCBA applications, allowing standardized training and eliminating redundant fit-testing.

Dedicated Use
Although the SCBA and APR facepieces share a common sealing surface and common fit test, they also have design differences to meet the specific needs of their individual applications. The harsh environment of routine firefighting may degrade an SCBA facepiece. Although this normal wear from daily use will not affect the protection afforded by a positive-pressure SCBA, it may not be suitable in a chemical warfare environment when converted to a negative pressure APR device.

For this reason, the MSA CBRN Ultra Elite Gas Mask is designed for dedicated use as an air purifying respirator only and cannot be mistakenly interchanged with an SCBA. This helps ensure that firefighters have the right level of protection, in the right condition, when they need it.



Safety
- Super-soft black Hycar rubber exceeds the CBRN permeation requirements
- Large lens with 83% unimpeded vision
- Centrally located inlet port for secure, comfortable fit and feel
- Centrally located mechanical speaking diaphragm for clear communications
- Optional ClearCommand® Amplifier for increased communication capabilities

Simplicity
- Available with a 5-point rubber or SpeeD-ON® head harness
- Identical sealing surfaces for both SCBA and Gas Mask facepieces – eliminating the need for redundant fit testing
- Simplified respiratory protection training program

Reliability
- The Ultra Elite facepiece is fire-service proven, with over a decade of trusted use
- MSA has been making gas masks since World War I
- Largest supplier of gas masks to the law enforcement market

Item	Description
55351	Ultra Elite Hycar Gas Mask with Rubber Head Harness, Size Small
55352	Ultra Elite Hycar Gas Mask with Rubber Head Harness, Size Medium
55353	Ultra Elite Hycar Gas Mask with Rubber Head Harness, Size Large
55354	Ultra Elite Hycar Gas Mask with SpeeD-On® Head Harness, Size Small
55355	Ultra Elite Hycar Gas Mask with SpeeD-On® Head Harness, Size Medium
55356	Ultra Elite Hycar Gas Mask with SpeeD-On® Head Harness, Size Large

Cascade Air Breathing System

High-pressure cylinders (Item 55272) contain 150 minutes of Grade E breathable air when used with a Level B pressure demand respirator.

- 150 min. divided by 4 workers equals 37.5 minutes per cylinder
- 20 cylinders times 37.5 minutes equals 750 minutes, or 12.5 hours of breathable air for a 4 man decon operation

The first cylinder in a cascade system requires a high pressure to low pressure regulator (Item 55610). Regulator should be type that will not allow more than 200 psi on low-pressure side to prevent low-pressure hose failure.

A low-pressure whistle (Item 55282) can be added as an option to regulator (Item 55610). Each additional cylinder, after the first one, that the regulator is attached to requires a manifold tee with back-flow check valve (Item 55612), and a 24" flexible high pressure pig tail (Item 55611–not shown).

Once cascade system is assembled, the method of distributing the low pressure air to the decon workers must be decided.

You have the following options:

Option 1: Direct hook-up to the cascade regulator with 4-man manifold, as show in picture (Item 55241).



Option 2: Bull hose connection from regulator to the decon area (length of bull hose depends on total distance. For long lengths, a hose reel maybe a good option as pictured (Item 55274).



Item 55274

Cylinder storage and refilling of cylinders is an important consideration. Each cylinder takes up a square foot of floor space. Aramsco offers many options for storing your cascade system if space is not available in the Emergency Room area. These options include a 16 bottle pallet mounted pod, which could be moved by forklift truck to the decon site; a trailer that could be parked in a single parking space and moved to the decon site when needed; or an outdoor building that would house the cascade system. Please consult your Aramsco sales representative for pricing on these and other options.



Item 55241



Item 55203



Items 55615 & 55616

Item	Description
55272	300 CFM, 2216 psi Air Cylinder Filled with Grade E Breathable Air (includes 346 valve and cup)
55610	High Purity Regulator with ½ Quick Disconnect for Bull Hose
55282	Low Pressure Air Whistle (mounts into regulator port - alarms at 500 psi)
55611	24" Flexible High Pressure Pigtail
55612	Manifold Tee with Backflow Check Valve
55615	Cylinder Bumper Brackets for Mounting Cylinders to Wall
55616	Cylinder Bracket End Caps (used at either end of cylinder bumpers)
55241	4 Man Remote Manifold - Basic
55206	4 Man Remote Manifold with Low Pressure Regulator (packaged in water proof container)
55203	Deluxe 6 Man Remote Manifold with 2 Inlet Ports (for joining 2 stand-alone Cascade systems into one)
Bull Hose	
55274	Hand Crank Hose Reel (holds up to 150' of ½" bull hose)
52013	½" × 10', 300 psi Bull Hose (connects Cascade to hose reel and includes all hardware and can be pre-assembled)
52014	½ × 50', 300 psi Bull Hose with Quick Disconnect (connects Cascade to remote manifold)
52011	½" × 100', 300 psi Bull Hose with Quick Disconnect (connects Cascade to remote manifold)
Respirator Airline Hose	
52004	⅜" × 25', 225 psi Hose with ¼" Quick Disconnect (connects remote manifold to respirator)

Technical Rescue Bottled Air Cart

Designed to provide air for all the various respirators and unique rescue tools used by Technical Rescue Teams. Stainless steel cart and color designated control panel allow one side of panel for respirator breathing air and one side for any tool requirements. Two, one hour SCBA cylinders or high pressure truck cylinder air can be used to operate the air control panel.



Item	Description
55523	Technical Rescue Cart AC-87 87cf Carbon Fiber Cylinder, 4500 psi Rated (1 Hr)

DRAG-BAG™

Rescue System

Ideal for rapid intervention and rescue scenarios. Keeps contents secure during hazardous rescues.



Multi-compartment, 1000 denier nylon bag can be used to drag or carry essential respirator components and rescue supplies into difficult rescue/rapid intervention situations. Sized to hold a 60 minute SCBA air cylinder, respirator facepiece, radio, "man-down" alarm, rope, and airline hose.

D-ring slots located at each end of the bag allow rope to be deployed during search operations. One end of the rope can be tied off, allowing the remainder to play out as rescue worker drags bag into search area. Rope can then be tied to the victim to facilitate assistance and recovery. Now available with a Quick-Fill hose.



QFH-5

Item	Description
55543	DBRS-1 DRAG-BAG™, Rescue System complete with DRAG-BAG™ and DRAG-REG (regulator/cylinder assembly)
55544	DBRS-1QF Rescue system complete with DRAG-BAG™, DRAG-REG. and QFH-5 Quick Fill hose with FD-17 coupler - order cylinder separately

The Multi-Pak™ Portable Multi-Function Rapid Response Bottled Air Series



Item 55522



Item A21943

The Multi-Pak™ series of bottled air carts has been designed with the user in mind. Ideal for confined space entry, Hazmat, fire rescue, emergency response teams and water/sewage treatment facilities. Order cylinders separately. Specify fittings Hansen or Schrader.

Item	Description
Small Bottled Carts	
55522	MP-4R Multi-Pak™ Rescue Cart 4500 psi Air Cart, Supplied with 4-Outlet Manifold, Auxiliary Regulator with Tool Fitting
55521	MP-4H Multi-Pak™, 2-cylinder Air Cart, 4500 psi, with 4-Outlet Manifold, Cga-347 Hand Tight Nuts, High Flow Regulator
Large Bottled Carts	
A21943	MP-2300ENB Multi-Pak™ 2400 psi 2 Bottle Air Cart Supplied With 4-Outlet Manifold, Cga-346 Wrench Tight Nuts with No Bleed Valves with Storage Case and Pneumatic Tires

COMP-3 System

Designed for 3 Pressure Demand Respirators



Pictured is the Air Systems™ unique portable breathing air compressor, Model TA-3, which can be used with any Breather Box™. This style of compressor is designed to be used only with pressure demand respirators. This unique compressor delivers air pressures up to 110 psi at close to ambient air temperatures. This style of compressor system is available for standard or IDLH operations. Compressor operates on 115 VAC, 20 amp.

Item	Description
55517	TA-3 Compressor
55518	BB30-CO3 Breather Box™
55519	H-10-5 Connect Hose
55524	COMP-3 Package

Breathing Air Applications

Industrial, Fire and Hazmat

Extended duration Level A rescue/response becomes more efficient when accompanied with a back-up breathing air source. These Bottle Air Systems can be customized to meet the needs of any size rescue/response group. Our technical department can assist you in determining which bottled air configuration best meets your response requirements.



Item 55762



Item 55761



Item 55759



Item 55760

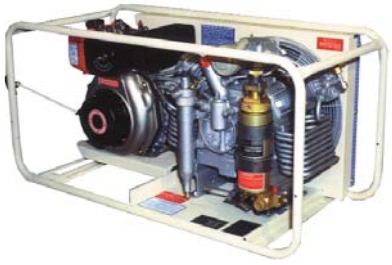
Due to the nature of the individual configurations available for this product line you will need to call us for ordering information. All accessories and components are available!

Item	Description
55759	Slide-In Vehicle Rack System
55760	Air Responder™ Bottled Air Trailers
55761	Bottled Air Pak Lift-Pak™
55762	Air-Wagon™ 6-Bottle Air Cart

Cylinder Refill Systems

High Pressure Fill Compressors

Aramsco provides high pressure fill compressors and outfits custom airline monitors, air storage, and air distribution systems. Call Aramsco's Customer Service Department to discuss your particular applications. We can provide output air pressure to 6000 psi and over 145 CFM capacity.



Horizontal Design



Vertical Design

Due to the nature of the individual configurations available for this product line you will need to call us for ordering information. All accessories and components are available!

Item	Description
55763	Cylinder Refill Systems—Vertical Design
55764	Cylinder Refill Systems—Horizontal Design

Air-Kaddy™

Modular Aluminum SCBA Cylinder Storage Racks



The Air-Kaddy's™ unique modular design allows for expansion as needed to accommodate your SCBA storage requirements... today and in the future! The AK40-25 is a free standing rack which stores 25 cylinders. All racks are lined with nylon pads to prevent cylinder scratches and are delivered fully assembled. Other models available, call for details.

Item	Description
55766	AK40-25 Air-Kaddy™

Electronic Air Quality Test Meter

The Model AQT-02 Air Quality Test Meter has been developed out of a need for customers to obtain an immediate and accurate oxygen (O2) reading for both high pressure bottled air and low pressure plant air lines. The tester can be ordered with an additional sensor to read carbon monoxide (CO) simultaneously with oxygen, Model AQT-C002. The tester requires two 9-volt DC batteries for operation and is supplied with 5 feet of hose. For bottled air testing, order the optional high pressure adapter (Model AQT-347LP).



Item	Description
55765	Air Quality Test Meter

Breather Box™ Portable and Fixed Grade-D Breathing Air Filtration Systems

The Industry's Standard in Filtration Systems



Item A45795

These portable Grade-D filtration systems are designed to provide breathing air for a specific number of workers. The system filters inlet air to provide respirator users Grade-D quality air. The first stage filters bulk water and particulate, second stage coalescing filter eliminates atomized oils, mists, and ultra-fine particulates, third stage removes organic vapors and odors. Filter change indicators are standard on all three stages. Filter efficiency is 99.99% @ .01 microns. A built-in carbon monoxide monitor operates on 9-volt DC, dual 8 - 16 volt DC or 115 VAC for continuous detection. An external alarm and light signals the worker of high CO content. Point-of-Attachment (POA) boxes can extend respirator usage beyond 300 feet. All Breather Box™ models are designed to be used in the closed position to prevent internal contamination.

Item	Description
A45795	BB50-CO 50 CFM Breather Box™ with CO Monitor, 4 Outlet Fittings
A15907	BBK-20 Calibration Kit for CO Monitor

Portable CO Monitor for All Air Compressors



Item A35742

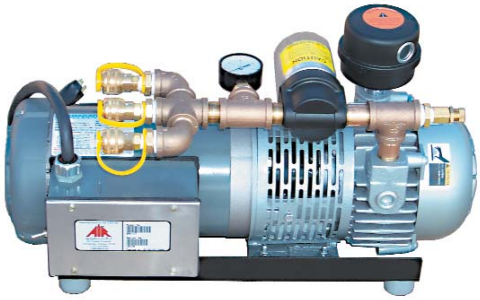
This portable monitor unit easily plugs into any high or low pressure compressed breathing air source and monitors the air for CO content. The audible alarm (90dbA) will activate when the CO level exceeds 10ppm (5ppm International). External alarm and lights allow for the unit to be used in the closed position.

- Operates on 9 volt batteries and/or 115 VAC
- ¼" Hansen coupling supplied on 5' hose

Item	Description
A35742	Portable CO Monitor, 9 VDC and/or 115 VAC, 5' Hose, 150 psi
A35743	Portable CO Monitor, 9 VDC and/or 115 VAC, 5' Hose, Rated for 5000 psi Maximum Pressure Includes 5000 psi Regulator and 5' Hose
A35744	Portable CO Monitor with Built-In Calibration Gas Cylinders, 150 psi Maximum; Includes Regulator
A35745	Portable CO Monitor with Built-In Calibration Gas Cylinders, Rated for 5000 psi Maximum Pressure Includes Calibration Gas and Regulator

Portable Ambient Air Pumps

Designed for use with Constant Flow Respirators



Item A15736

Low pressure breathing air compressors are portable oil-less air sources for use with Type-C constant flow respirators only (0-15psi). All units include intake and discharge filters (0.5-0.7 micron), adjustable pressure relief valve, pressure gauge, slip resistant, shock absorbing rubber mounts and thermal overload protection. All electric motors are CSA approved and UL listed. Specify fittings Hansen or Schrader.

Item	Description
A20133	Two Person Pump 2 Tight Fitting Masks or 1 Hood
A15736	Three Person Pump 3 Tight Fitting Masks or 2 Hoods

Don't See It Here?
Visit our website for a complete product offering including other industry specific categories.
www.aramsco.com

Due to the nature of the individual configurations available for this product line you will need to call us for ordering information. All accessories and components are available!

Military Grade-Level B Protective Garment

Designed and Manufactured for the Homeland Security Market

JetGuard PLUS

ISO 9001:2000

A strong, but lightweight and comfortable, protective line of garments providing liquid-tight protection against chemical, biological or nuclear agents. JetGuard PLUS garments are constructed from Indutex's patented Tessaform® material for maximum protection.

- Raw material has passed NFPA 1994 Class 3 (2001) testing for chemical permeation and strength
- Higher resistance to chemical aggressions than comparable materials

This innovative garment assembly is made with the comfort and safety of first responders in mind. Manufactured with Indutex's patented Tessaform® material, the strength, comfort and chemical resistance of this suit is truly remarkable. The unique over-hood design eliminates the need for a visor, and does not allow for CO2 buildup within in the suit. The ensemble is designed to work with the industry-standard Millennium mask from MSA, reducing the need to purchase a separate respirator to remain NFPA compliant.

JetGuard® Plus

- Chemical protective coverall; Certified for chemical, biological and nuclear protection
- Attached hood with elastic face enclosure
- Attached boots with lacets at ankles
- Elastic wrists
- Welded overtaped seams
- Zipper front with storm flap
- Liquid tight
- Attached finger loops (2)



JetGuard® Plus Ensemble

- This ensemble was designed using an over hood without the use of a visor. Carbon Dioxide buildup is impossible with this open hood system.
- The respirator (sold separately) used in the testing of this ensemble was the Millennium mask from MSA. This is the most popular mask in the industry thus minimizing your requirements to switch respirators to remain compliant.
- The double glove system uses nitrile gloves for both the outer and inner gloves. This unique glove system was designed to replace butyl gloves in the WMD market. This system passed warfare agent testing with the following chemicals: Distilled Sulfur Mustard (HD), Lewisite (L), Sarin (GB), V-Agent (VX), and Dimethyl sulfate (DMA).
- The boots (sold separately) are the popular Hazmax EZ-Fit boot from ONGUARD Industries, L.L.C. The low cut design allows the user to don and doff the boots without any assistance.



JetGuard Plus Military Grade-Level B Protective Garment

Item	Size
51060	Small
51061	Medium
51062	Large
51063	X Large

Item	Size
51064	2X Large
51065	3X Large
51066	4X Large
51067	5X Large

Respirator and boots sold separately

JetGuard Plus Military Grade-Level B Ensemble

Item	Size
52071	Small
52072	Medium
52073	Large
52074	X Large

Item	Size
52075	2X Large
52076	3X Large
52077	4X Large
52078	5X Large

Respirator and boots sold separately

For laboratory results on the Tessaform material please refer to the tables on the following pages.

Tessaform® and JetGuard® are Indutex S.p.A. registered trademarks inside and outside U.S.A.

Military Grade-Level B Protective Garment
Permeation Test Data

JetGuarD PLUS

Legend

Real: Time between the first contact and the minimum permeation detectable tax

ASTM: Time between the first contact and the minute in which 0,1 microgram is detected

EN: Time between the first contact and the minute in which 1 microgram is detected

TPC: Permeation tax at 480th minute

TPM: Minimum detectable tax

Chemical	CAS	State	Real	ASTM	EN	Class	TPC	TPM
Acetaldehyde	75-07-0	L	4	>480	>480	6	0,011	0,001
Acetic acid (glacial)	64-19-7	L	>480	>480	>480	6	<0,001	0,001
Acetone	67-64-1	L	9	9	9	0	9,0	1,0
Acetonitrile	75-05-8	L	>480	>480	>480	6	<0,01	0,01
Acrolein	107-02-8	L	>480	>480	>480	6	<0,1	0,1
Acrylamide (50%)	79-06-1	L	>480	>480	>480	6	<0,001	0,001
Acrylonitrile	107-13-1	L	>480	>480	>480	6	<0,01	0,01
Allyl alcohol	107-18-6	L	>480	>480	>480	6	<0,01	0,01
Allyl chloride	107-05-1	L	>480	>480	>480	6	<0,001	0,001
Ammonia	7664-41-7	G	127	>480	>480	6	0,025	0,001
Ammonium hydroxide (30%)	1336-21-6	L	155	>480	>480	6	0,017	0,001
Amyl acetate n-	628-63-7	L	>480	>480	>480	6	<1	1
Aniline	62-53-3	L	>480	>480	>480	6	<0,8	0,8
Anthracene (sat'd. in toluene)	120-12-7	L	>480	>480	>480	6	<1	1
Antimony pentachloride	7647-18-9	L	>480	>480	>480	6	<1	1
Benzene	71-43-2	L	>480	>480	>480	6	<1	1
Benzonitrile	100-47-0	L	455	455	>480	6	0,1	0,1
Bromine	7726-95-6	L	55	56	60	2	31	0,001
Butyl ether n-	142-96-1	L	>480	>480	>480	6	<1	1
Carbon disulphide	75-15-0	L	77	77	>480	6	0,22	0,01
Carbon tetrachloride	56-23-5	L	>480	>480	>480	6	<1	1
Chlorine	7782-50-5	G	>480	>480	>480	6	<0,001	0,001
Chloroacetic acid	79-11-8	L	101	>480	>480	6	0,015	0,001
Chlorobenzene	108-90-7	L	4	4	4	0	10	1
Chloroethanol 2-	107-07-3	L	>480	>480	>480	6	<0,001	0,001
Chloroform	67-66-3	L	62	62	62	2	76,7	0,8
Chloromethyl methyl ether	107-30-2	L	>480	>480	>480	6	<1	1
Creosote	8001-58-9	L	>480	>480	>480	6	<1	1
Cresol-o	95-48-7	L	>480	>480	>480	6	<1	1
Cyclohexane	110-82-7	L	>480	>480	>480	6	<1	1
Di-(2-ethylhexyl)phthalate	117-81-7	L	>480	>480	>480	6	<1	1
Dichloromethane	75-09-2	L	105	105	105	3	2,0	1,0
Diesel fuel	70892-10-3	L	>480	>480	>480	6	<0,1	0,1
Diethylamine	109-89-7	L	3	>480	>480	6	0,009	0,001
Dimethyl nitrosamine	62-75-9	L	>480	>480	>480	6	<0,01	0,01
Dimethyl sulphide	75-18-3	L	>480	>480	>480	6	<0,01	0,01
Dimethylacetamide N,N-	127-19-5	L	>480	>480	>480	6	<0,001	0,001
Dimethylformamide N,N-	68-12-2	L	>480	>480	>480	6	<0,001	0,001
Dioxane 1,4-	123-91-1	L	>480	>480	>480	6	<1	1
Epichlorohydrin	106-89-8	L	>480	>480	>480	6	<0,1	0,1
Ethanolamine	141-43-5	L	48	48	48	2	2	1
Ethyl acetate	141-78-6	L	>480	>480	>480	6	<1,0	1,0
Ethyl cellosolve® acetate	111-15-9	L	>480	>480	>480	6	<0,01	0,01
Ethylene dibromide	106-93-4	L	>480	>480	>480	6	<1	1
Ethylene glycol	107-21-1	L	>480	>480	>480	6	<0,6	0,6
Ethylenediamine	107-15-3	L	>480	>480	>480	6	<0,01	0,01
Fluorobenzene	462-06-6	L	>480	>480	>480	6	<1	1
Formaldehyde (37%)	50-00-0	L	>480	>480	>480	6	<0,1	0,1
Formic acid (96%)	64-18-6	L	5	>480	>480	6	0,03	0,03
Furaldehyde 2-	98-01-1	L	81	137	398	5	1,46	0,01
Gasoline, leaded	86290-81-5	L	>480	>480	>480	6	<0,1	0,1
Hexamethylene diisocyanate	822-06-0	L	>480	>480	>480	6	<1	1
Hexane n-	110-54-3	L	>480	>480	>480	6	<0,1	0,1
Hydrazine	302-01-2	L	325	>480	>480	6	0,002	0,001
Hydrochloric acid (37%)	7647-01-0	L	192	>480	>480	6	0,012	0,001
Hydrofluoric acid (50%)	7664-39-3	L	3	>480	>480	6	0,008	0,001
Hydrofluoric acid (70%)	7664-39-3	L	8	>480	>480	6	0,0052	0,0001
Isophthaloyldichloride (45°C)	99-63-8	L	>480	>480	>480	6	<1	1
Isophthaloyldichloride (45°C)	99-63-8	L	>480	>480	>480	6	<0,1	0,1
Isopropyl alcohol	67-63-0	L	1	>480	>480	6	0,016	0,001
Kerosene (Jet A fuel)	8008-20-8	L	>480	>480	>480	6	<0,1	0,1
Mercuric chloride (sat'd)	7487-94-7	L	>480	>480	>480	6	<0,03	0,03
Methanol	67-56-1	L	361	361	>480	6	0,43	0,1
Methlyl-t-butyl-ether	1634-04-4	L	>480	>480	>480	6	<0,1	0,1
Methyl ethyl ketone	78-93-3	L	>480	>480	>480	6	<0,01	0,01
Methyl isocyanate	624-83-9	L	9	9	>480	6	0,7	0,1
Methyl vinyl ketone	78-94-4	L	22	>480	>480	6	<0,01	0,01
Methyl-2-pentanone 4-	108-10-1	L	11	11	>480	6	0,6	0,1
Methylene bromide	74-95-3	L	312	312	312	5	24	1
Methylene chloride	75-09-2	L	>480	>480	>480	6	<1	1
Naphthalene	91-20-3	S	>480	>480	>480	6	<1	1

Military Grade-Level B Protective Garment
Permeation Test Data Continued

JetGuard PLUS

Chemical	CAS	State	Real	ASTM	EN	Class	TPC	TPM
Nitric acid (> 90%, fuming)	7697-37-2	L	>480	>480	>480	6	<0,001	0,001
Nitric acid (70%)	7697-37-2	L	>480	>480	>480	6	<0,001	0,001
Nitrobenzene	98-95-3	L	>480	>480	>480	6	<0,1	0,1
Nitrogen dioxide	10102-44-0	G	>480	>480	>480	6	<0,001	0,001
Petrol, unleaded	8006-61-9	L	>480	>480	>480	6	<0,1	0,1
Phenol (85%)	108-95-2	L	>480	>480	>480	6	<0,5	0,5
Phosphoric acid (85%)	7664-38-2	L	>480	>480	>480	6	<0,001	0,001
Phosphorous oxytrichloride	10025-87-3	L	>480	>480	>480	6	<1	1
Phosphorous trichloride	7719-12-2	L	>480	>480	>480	6	<0,01	0,01
Polychlorinated biphenyl (PC	11097-69-1	L	>480	>480	>480	6	<0,1	0,1
Potassium chromate (sat'd)	7789-00-6	L	>480	>480	>480	6	<0,015	0,015
Propylene oxide 1,2-	75-56-9	L	>480	>480	>480	6	<0,01	0,01
Sodium cyanide (45%)	143-33-9	L	>480	>480	>480	6	<0,001	0,001
Sodium hydroxide (50%)	1310-73-2	L	>480	>480	>480	6	<0,001	0,001
Sodium hydroxide conc.	1310-73-2	S	>480	>480	>480	6	<0,001	0,001
Sodium hypochlorite (30% Ch	7681-52-9	L	>480	>480	>480	6	<0,001	0,001
Sulphur dioxide	7446-09-5	G	>480	>480	>480	6	<0,001	0,001
Sulphuric acid (93%)	7664-93-9	L	>480	>480	>480	6	<0,001	0,001
Sulphuric acid (95%)	7664-93-9	L	>480	>480	>480	6	<0,001	0,001
Tetrachlorobiphenol 2,2',6,6'-	79-95-8	S	>480	>480	>480	6	<1	1
Tetrachloroethylene 1,1,2,2-	127-18-4	L	>480	>480	>480	6	<1	1
Tetrahydrofuran	109-99-9	L	>480	>480	>480	6	<10	10
Tin chloride, Mono-n-butyl	1118-46-3	L	245	>480	>480	6	0,002	0,001
Tin chloride, Tri-n-butyl	1461-22-9	L	231	>480	>480	6	0,001	0,002
Toluene 2,4- diisocyanate	584-84-9	L	>480	>480	>480	6	<0,001	0,001
Toluidine o-	95-53-4 L		>480	>480	>480	6	<0,05	0,05
Trichloroacetic acid	76-03-9	L	135	>480	>480	6	0,002	0,001
Trichlorobenzene 1,2,4-	120-82-1	L	60	60	60	2	4	1
Trifluoroacetic acid	76-05-1	L	>480	>480	>480	6	<0,001	0,001
Trimethyl chinon	935-92-2	L	>480	>480	>480	6	<1	1
Vinyl acetate	108-05-4	L	>480	>480	>480	6	<0,001	0,001

Chemical Warfare Agent (CWA) Protection: JetGuard® PLUS raw material was tested by TNO Laboratory following as the NATO procedures (quantity passed after 4 hours exposure) as Finabel procedures (breakthrough times comparable with ASTM F739). All the test are performed with a 30°C temperature and with enclosed method. These are the most difficult condition because all the CWA is in continuous direct contact with the raw material and it can't "fly over" as in the open method.

Chemicals	Permeation NATO - Quantity 4 h. µg/cm2	Permeation FINABEL (h:min.)	Accuracy FINABEL µg/cm2
Mustard (HD)	0,13	3:00	0,1
Soman (GD)	< 0,05	> 24:00	0,005
Sarin (GB)	n.a.	> 24:00	0,005
Tabun (GA)	n.a.	> 24:00	0,005
VX	< 0,05	> 24:00	0,005
Lewisite	n.a.	3:15	0,005

Biological Protection
JetGuard® PLUS was tested following prEN 14126:2001 norm that includes also the ASTM F1670 and ASTM F1671 test method.

Test	Value Class	Test	Value Class
Synthetic blood under hydrostatic pressure	20 KPa 6	Penetration of infecting agents by contact	> 150 min. 6
Blood born infective agents (Phi-X 174 bacteriophage)	20 KPa 6	Biologically contaminated aerosols	0 micro organisms 6
		Biologically contaminated powders	0 micro organisms 6

Nuclear Protection
JetGuard® PLUS garments passed all the tests included in EN 1073-2 norm for the protection against nuclear contaminated particles.
Note: Sarin, Tabun and Lewsite NATO test are not applicable because NATO procedure doesn't take into consideration chemicals.
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Physical Property	Method		U.M	Classification prEN 14325 JetGuard® PLUS value	class
Weight		ISO 4591	gr/m²	130	n.a.
Abrasion resistance		EN 530/96	cycles	> 2000	6
Flex cracking resistance		EN-ISO 7854/99 (B)	cycles	> 100.000	6
Trapezoidal tear resistance	MD	EN-ISO 9073-4/99	N	31,8	2
	XD	EN-ISO 9073-4/99	N	121	5
Traction resistance	MD	EN-ISO 13934-1/00	N	68	2
	XD	EN-ISO 13934-1/00	N	172	3
Puncture resistance		EN 863/95	N	20,8	2
Burst resistance		EN-ISO 13938-2/01	KPa	262	3
Stability to heat	ext./ext	ISO 5978/90	-	Few adhesion	
	ext./int	ISO 5978/90	-	No adhesion	
	int./int	ISO 5978/90	-	No adhesion	
Antistatic Properties		EN 1149-1/97	W	ND	
Hydrostatic head		EN ISO 20811/93	cm H_2O	515,2	
		Pa	50560	ND	
Ignition resistance		prEN 13274-4/98 (3)	-	Self extinguishing	

DuPont Tychem® F

For High Levels of Protection from Chemical Warfare Agents for Military and Civil Emergency Personnel.

Tychem® F is a polymer based flash spunbonded material laminated to a protective film which is coated with a polymeric seal layer. It is strong, light and easy to handle, totally waterproof and hydrophobic. Although it is impermeable it does not produce the acutely uncomfortable sensation familiar with rubberized clothing. While it is not suitable for fire fighting, **Tychem® F** meets the minimum inflammability requirements of European standards for chemical protective clothing. It can easily be made into sealed garments.



Tychem® F provides a tough and safe barrier to all known chemical warfare agents in liquid, gas or aerosol formats and represents the first simple, economic and reusable or disposable material for individual protection suits, decontamination suits, casualty bags, collective protection and large shelter covers. It is also very suitable for a wide variety of uses in areas where there is, or there could be risk from contamination from an industrial accident. It is easily adapted to combine chemical warfare protection with Counter Surveillance protection.

Technical Description

Tychem® F is manufactured by laminating the basic **TYVEK®** flash-spunbonded polyethylene material to a barrier film which is coated with a polymer. The top polymer layer allows seams to be made with a heat sealing tape which includes the same barrier film and polymer as **Tychem®** F. Known chemical warfare agents will not permeate these seams.

Chemical Warfare Agent Protection

Tychem® F provides an exceptionally high level of protection for very long periods against known chemical warfare agents. **Tychem® F** has been tested and certified by the prestigious TN0 Laboratories in The Netherlands having passed all the standard NATO tests for chemical warfare protection. In addition several Nations with advanced chemical warfare testing facilities have satisfactorily subjected **Tychem® F** to their own national test standards. The results below confirm that **Tychem® F** is one of the most effective chemical warfare protective materials available.

Biological Warfare Agent Protection

Tychem® F provides a barrier against biological warfare agents. A protective suit made from **Tychem® F** to keep out chemical warfare agents will also provide barrier protection against biological warfare agents. However it is important that the garment design excludes the possibility of agents being drawn in at the wrists or ankles by the "bellows" effect.

While it is not suitable for fire fighting, **Tychem® F** meets the minimum requirements for resistance to ignition for chemical protective clothing set by drafted European norms. **Tychem® F** is made of polymers which do not contain halogens in their structural formula. Depending on the chemical contamination on the garment it can be either incinerated without any harm to the environment or buried in a responsible way.

Item	Description	Size
51130	Tychem® F Full Body Coverall	Small
51160	Tychem® F Full Body Coverall	Medium
51161	Tychem® F Full Body Coverall	Large
51162	Tychem® F Full Body Coverall	X Large
51163	Tychem® F Full Body Coverall	2X Large
51164	Tychem® F Full Body Coverall	3X Large
51165	Tychem® F Full Body Coverall	4X Large
51166	Tychem® F Full Body Coverall	5X Large

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DuPont Tychem® F

Technical Data

Chemical Warfare Agent Permeation Data DuPont™ Tychem® F				
Chemical Name	**CAS**	**Phase**	**Tychem® F**	**Notes**
Lewisite (L) Chemical Agent	541-25-3	L	360	Note 1
Sulfur mustard (HD) Chemical Agent	505-60-2	L	>720	Note 1
Tabun	77-81-6	L	>720	Note 2
Sarin (GB) Chemical Agent	107-44-8	L	>720	Note 2
Soman (GD) Chemical Agent	96-64-0	L	>720	Note 2
VX Nerve agent	50782-69-9	L	>720	Note 2

Note 1: Tested according to MIL-STD-282, Method T-209 (HD) or modified for L for 12 hours at 100 g/m².

Note 2: Tested according to MIL-STD-282, Method T-208 (GB) or modified for GA, GD, and VX, for 12 hours at 100 g/m².

Symbols and Abbreviations used in data table:
> = more than; < = less than; imm. = immediate (less than 10 minutes); nm = not measured; nd = not detected; S = Solid; L = Liquid; G = Gas

Physical Properties of DuPont™ Tychem® F		
Property	**Test Method**	**Result**
Total Basis Weight	ASTM D3776	3.1 oz./yd(2)
Thickness	ASTM D1777	7 mils
Ball Burst	ASTM D3787	61 lbf
Puncture, Propogation, Tear	ASTM 2582	8.6 lbf avg.
Trap Tear (md/cd)	ASTM D5733	5.9 lbf avg.

These results are measured using the latest ASTM test methods.

Results will vary due to the changes in test methods.

A true test of performance is in use.

Chemical Permeation Data									
Chemical Name	CAS	Phase	Tychem®F	Notes	Chemical Name	CAS	Phase	Tychem®F	Notes
Acetaldehyde	75-07-0	L	imm.		Antimony pentachloride	7647-18-9	L	15	
Acetic acid	64-19-7	L	>480		Arsenic Trichloride	7784-42-1	L	38	
Acetone	67-64-1	L	>480		Benzene	71-43-2	L	>480	
Acetone cyanohydrin	75-86-5	L	>480		Benzene sulfonyl chloride	98-09-9	L	>480	
Acetonitrile	75-05-8	L	157		Benzyl Chloride	140-29-4	L	>390	
Acetyl chloride	75-36-5	L	>480		Benzyl Nitrile	100-44-7	L	>480	
Acrolein	107-02-8	L	63		Benzonitrile	100-47-0	L	>480	
Acrylamide, 50% in water	79-06-1	L	>480		Benzoyl Chloride	98-88-4	L	>480	
Acrylic acid	79-10-7	L	>480		Bisphenol-A diglycidyl ether	1675-54-3	L	>480	
Acrylonitrile	107-13-1	L	12		Boron trifluoride Dimethyletherate	353-42-4	L	>480	
Adiponitrile	111-69-3	L	>480		Bromine	7726-95-6	L	imm.	
Allyl alcohol	107-18-6	L	>480		4-Bromofluorobenzene	460-00-4	L	>480	
Allyl chloride	107-05-1	L	>480		1,3-Butadiene	106-99-0	G	>480	
Ammonia gas	7664-41-7	G	79		n-Butanol	71-36-3	L	>480	
Ammonium hydroxide, 28%-30%	1336-21-6	L	>480		n-Butyl ether	142-96-1	L	196	
n-Amyl acetate	628-63-7	L	>480		Carbon disulfide	75-15-0	L	>480	
Aniline	62-53-3	L	>480		Carbon tetrachloride	56-23-5	L	11	
Anthracene, sat. sol. in toluene	120-12-7	L	>480		Chlorine gas	7782-50-5	G	>480*	
Antimony pentachloride	7647-18-9	L	15		Chloroacetic acid	79-11-8	L	>480	
Arsenic Trichloride	7784-42-1	L	38		4-Chloroaniline (70° C)	106-47-8	L	344	
Benzene	71-43-2	L	>480		Chlorobenzene	108-90-7	L	>480	
Benzene sulfonyl chloride	98-09-9	L	>480		2-Chloroethanol	107-07-3	L	>480	
Benzyl Chloride	140-29-4	L	>390		2-Chloroethanol	107-07-3	L	>480	
Benzyl Nitrile	100-44-7	L	>480		Chloroform	67-66-3	L	imm.	
Benzonitrile	100-47-0	L	>480		Chloromethyl methyl ether	107-30-2	L	46	
Benzoyl Chloride	98-88-4	L	>480		Chlorosulfonic acid	7790-94-5	L	>480	
Bisphenol-A diglycidyl ether	1675-54-3	L	>480		Chlorosulfonic acid	7790-94-5	L	>480	
Boron trifluoride Dimethyletherate	353-42-4	L	>480		o-Chlorotoluene	95-49-8	L	>480	
Bromine	7726-95-6	L	imm.		Creosote	8001-58-9	L	>480	
4-Bromofluorobenzene	460-00-4	L	>480		o-Cresol	95-48-7	L	180	
1,3-Butadiene	106-99-0	G	>480		Cumene	98-82-8	L	>480	
n-Butanol	71-36-3	L	>480		Cyclohexane	110-82-7	L	>480	
n-Butyl ether	142-96-1	L	196		1,3-Dichloroacetone (40° C)	534-07-6	L	>480	
Carbon disulfide	75-15-0	L	>480		1,2-Dichloroethane	107-06-2	L	118	
Carbon tetrachloride	56-23-5	L	11		Dichloroethyl ether	111-44-4	L	>480	
Chlorine gas	7782-50-5	G	>480*		Dichloromethane	75-09-2	L	imm.	
Chloroacetic acid	79-11-8	L	>480		1,3-Dichloropropene	542-75-6	L	25	
4-Chloroaniline (70° C)	106-47-8	L	344		2,3-Dichloropropene	78-88-6	L	25	
Chlorobenzene	108-90-7	L	>480		Diesel fuel	68334-30-5	L	>480	

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DuPont Tychem® F
Technical Data

Chemical Permeation Data continued

Chemical Name	CAS	Phase	Tychem®F	Notes	Chemical Name	CAS	Phase	Tychem®F	Notes
Ethyl ether	60-29-7	L	>480		Phosgene	75-44-5	G	>480	
Fluorobenzene	462-06-6	L	>480		Phosphine	7803-51-2	G	imm.	
Fluorosilicic acid	16961-83-4	L	>480		Phosphoric acid, 85%	7664-38-2	L	>480	
Formalin (Formaldehyde 37%)	50-00-0	L	>480		Phosphorus oxychloride	10025-87-3	L	>480	
Formic acid	64-18-6	L	>390		Phosphorus trichloride	7719-12-2	L	>480	
2-Furaldehyde	98-01-1	L	>480		2-Picoline	109-06-8	L	>480	
Gasoline, leaded	86290-81-5	L	30		Polymethylene polyphenylpolyisocyanate	9016-87-9	L	>480*	
Gasoline, Unleaded	86290-81-5	L	>480						
1,6-Hexamethylenediamine (45° C)	124-09-4	L	>480		Potassium chromate, sat. sol.in water	7789-00-6	L	>480	
Hexamethylene diisocyanate	822-06-0	L	>480		1,2-Propylene oxide	75-56-9	L	14	
n-Hexane	110-54-3	L	>480		Pyridine	110-86-1	L	>480	
Hydrazine	302-01-2	L	283		Pyrrolidine	123-75-1	L	100	
Hydriodic acid, 57%	10034-85-2	L	>480		Sarin (GB) Chemical Agent	107-44-8	L	>720	Note 2
Hydrochloric acid, 37%	7647-01-0	L	>480		Silicon tetrachloride	10026-04-7	L	>480	
Hydrofluoric acid, 48%-51%	7664-39-3	L	>480		Sodium cyanide, 45%	143-33-9	L	>480	
Hydrofluoric acid, 70%	7664-39-3	L	39		Sodium hydroxide, conc.	1310-73-2	S	>480	
Hydrogen bromide	10035-10-6	G	>480		Sodium hydroxide, 42-50%	1310-73-2	L	>480	
Hydrogen chloride gas	7647-01-0	G	>480		Sodium hypochlorite, 30% chlorine	7681-52-9	L	>480	
Hydrogen fluoride gas	7664-39-3	G	imm.		Soman (GD) chemical agent	96-64-0	L	>720	Note 2
Hydrogen fluoride liquid (18°C)	7664-39-3	L	43		Styrene	100-42-5	L	>480	
Hypophosphorus acid, 50%	6303-21-5	L	>480		Sulfur dioxide	7446-09-5	G	38*	
Isopropanol	67-63-0	L	>480		Trifluoromethane Sulfonic Acid	935-92-2	L	>480	
Isopropylamine	75-31-0	L	>480		Sulfuric acid 95-98%	7664-93-9	L	>480	
Kerosene	8008-20-6	L	>480		Sulfur mustard (HD) chemical agent	505-60-2	L	>720	Note 1
Lewisite (L) Chemical Agent	541-25-3	L	360	Note 1	Sulfuryl chloride	7791-25-5	L	>480	
d-Limonene	5989-27-5	L	>480		Sulfuryl chloride	7791-25-5	L	>480	
Mercuric chloride, sat. sol. in water	7487-94-7	L	>480		Tabun	77-81-6	L	>720	Note 2
Mercury	7439-97-6	L	>480		2,2',6,6' Tetrachlorobisphenol A	79-95-8	S	>480	
Methacrylic acid	79-41-4	L	>480		1,1,2,2-Tetrachloroethylene	127-18-4	L	>480	
Methanol	67-56-1	L	77		Tetrahydrofuran	109-99-9	L	464	
Methyl acrylate	96-33-3	L	>480		Thioglycolic acid	68-11-1	L	>480	
Methylamine	74-89-5	G	>480		Thionyl chloride	7719-09-7	L	imm.	
Methyl tert-butyl ether	1634-04-4	L	>480		Titanium tetrachloride	7550-45-0	L	>480	
Methyl Cellosolve®	109-86-4	L	>480		Toluene	108-88-3	L	>480	
Methyl Cellosolve® acetate	110-49-6	L	>480		Toluene-2,4-diisocyanate	584-84-9	L	>480	
Methyl chloride	74-87-3	G	>480		o-Toluidine	95-53-4	L	>480	
Methyl ethyl ketone	78-93-3	L	71		Trichloroacetic acid	76-03-9	L	>480	
Methyl ethyl ketoxime	96-29-7	L	>480		1,1,3-Trichloroacetone	921-03-9	L	>480	
2-Methylglutaronitrile, 87%	4553-62-2	L	>480		1,2,4-Trichlorobenzene	120-82-1	L	>480	
Methylhydrazine	60-34-4	L	283		1,1,1-Trichloroethane	71-55-6	L	232	
Methylene Bromide	74-95-3	L	imm.		2,2,2-Trichloroethanol	115-20-8	L	>480	
N-Methylformamide	123-39-7	L	>480		Trichloroethylene	79-01-6	L	>480	
Methyl isobutyl ketone	108-10-1	L	>480		Trichloronitromethane	76-06-2	L	>480	
Methyl isocyanate	624-83-9	L	imm.		Trichlorophenylsilane	98-13-5	L	>480	
Methyl mercaptan	74-93-1	G	>480		Trifluoroacetic acid	76-05-1	L	>480	
Methyl methacrylate	80-62-6	L	70		Vinyl acetate	108-05-4	L	>480	
n-Methyl-2-pyrrolidone	872-50-4	L	>480		Vinyl chloride	75-01-4	G	>480	
Methyl trichlorosilane	75-79-6	L	>480		Vinylidene chloride	75-35-4	L	>480	
Naphthalene	91-20-3	S	>480		VX Nerve agent	50782-69-9	L	>720	Note 2
Nicotine	54-11-5	L	>480		Xylene, mixed isomers	1330-20-7	L	291	
Nitric acid, 70%	7697-37-2	L	>480						
Nitric acid, red fuming	52583-42-3	L	14						
Nitrobenzene	98-95-3	L	>480						
Nitrogen dioxide	10102-44-0	G	14						
Nitromethane	75-52-5	L	229						
2-Nitropropane	79-46-9	L	>480						
Oleum, 40% free SO3	8014-95-7	L	>480						
PCB gas condensate	mixture	L	>480						
PCB in transformer oil	mixture	L	>480						
2-Pentenenitrile	13284-42-9	L	>480						
Phenol, 85%-90%	108-95-2	L	238						

Note 1 - Tested according to MIL-STD-282, Method T-209 (HD) or modified for L for 12 hours at 100 g/m².

Note 2 - Tested according to MIL-STD-282, Method T-208 (GB) or modified for GA, GD, and VX, for 12 hours at 100 g/m².

Symbols and Abbreviations used in data table

* = Actual Breakthrough Time	nm = not measured
> = more than	nd = not detected
< = less than	S = Solid
imm. = immediate (less than 10 min.)	L = Liquid
	G = Gas

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ForceField® Body Armor



Have you heard about MSA's new ForceField® line of body armor? Three styles of ballistic vests have joined MSA's ForceField® ACH (Advanced Combat Helmet) to form MSA's newly-established ballistic protection product line.

State-of-the-art ballistics, innovative design features, and increased comfort unite to "protect the protectors" on the job. If you're in Law Enforcement, maybe you already wear MSA's Millennium® Gas Mask. Now, whether you're keeping the peace locally or responding to a specific incident, you can protect yourself with MSA's Police Line of ballistic helmets and vests.

Significant investments and years of ballistics development are evident in MSA's three in-house ballistic laboratories, relentless research and engineering, and materials science capabilities.

MSA began with our ACH ballistic helmet for military use. Next came the ForceField® ACH for law enforcement use. It duplicates the desirable features of our military ACH—notably, the fragmentation-resistance capabilities—and adds the handgun ballistic capabilities demanded by law enforcement.

"We know that police officers and others need reliable, advanced body protection. Our specialized engineering and research capabilities have put us in a favorable position to introduce our new body armor line with two concealable and one tactical vest styles."

Three MSA-exclusive features stand out

- MSA's exclusive Tri-T™ Comfort System pulls moisture away from your body and cools you, while reducing odor-causing bacteria
- Flex Panel™ Sizing maximizes vest coverage while contouring it to fit your body shape
- The MSA-exclusive Armor-Latch™ Closure gives you reliable front-to-back overlap—with a one-handed "forward pull" adjustment—for proper side coverage and comfort

The second vest style, ForceField® Bravo Vest, incorporates traditional styling, durability, and comfort within a concealable armor package. With fully protecting them in an unpredictable situation.

"Our goal is to protect the protectors from head to toe, with helmets, body armor, instrumentation, and respiratory protection that deliver superior performance and reliability," said Ron Herring, vice president and general manager of MSA's Safety Products Division. "We look forward to meeting the future body armor needs of police departments in the U.S. and around the world."

MSA's ballistic expertise emerged with the development of our military ACH in 2003, a lightweight design that offers soldiers advanced ballistic protection with greater comfort and stability, and has been credited with saving several lives. Also, MSA designs and produces rifle plates with multi-hit capability for Canadian military forces.

Due to the nature of the individual configurations available for this product line, you will need to call us for ordering information. All accessories and components are available!

ForceField® Echo Armor System



The ForceField® Echo Armor System is a concealable ballistic vest with exclusive side closure to ensure front-overback panel overlap. Built for comfort and safety, it offers extra-wide shoulder straps and a choice of ballistic packages.

MSA's ForceField® Echo Carrier features

- MSA's exclusive, patent-pending Armor-Latch side closure
  – Improves user safety by ensuring that the front panel overlaps the back panel
  – Quickly and comfortably adjusts, with a natural forward-pull motion
  – Secures panels in place while maintaining independent movement of front and back panels
- Advanced Microfiber rip-stop outer-shell material
- Very wide removable shoulder straps to enhance load-bearing comfort
- Easy accommodation of male and female sizing and vest panels
- Standard colors: black, white, navy blue, and tan

Item	Description	Size
A62491	ForceField® Echo, Male, Black	Small
A62492	ForceField® Echo, Male, Black	Medium
A62493	ForceField® Echo, Male, Black	Large
A62494	ForceField® Echo, Male, Black	X Large
A62495	ForceField® Echo, Female, Black	Standard

Paraclete® RAV (Releasable Assault Vest)



Designed for specialized military applications. Available for your tactical teams.

Activating the release feature allows the armor to be removed immediately for quick escape or administration of medical care.

Law enforcement personnel benefit from the following features

- Patented single-point release feature can be mounted on either side of the vest
- Full Molle-style grid webbing compatible with our pockets, and military issue Molle / Spear pockets
- 07 version includes low-profile flat-front Molle grid with no closure hardware
- The drag strap is sewn the full length of the vest
- Integrated drink tube and communication channels located on each shoulder
- The zip-off back panel allows the user to easily change the configuration of the back of the vest
- Hook & loop closure allows rapid access to the internal armor plate pockets and the soft armor package
- 10" × 12" rifle plate pockets
- Built-in side plate pockets for 6" × 6" hard plates.
- Mil. Spec. materials

Item	Description
A62514	RAV 07 Vest

Lightweight Outer Carriers

MSA

- Lightweight outer carriers allow the use of MSA Concealable Armor panels in an externally worn vest
- Adjustable shoulder harnesses loop to rear panel with pull-down adjustment
- Side closure via overlapping hook-and-loop ensures frontover-back panel position
- Internal cummerbund-style elastic closure provides stability and comfort
- Front and rear hook-and-loop fields and badge holder provides for identification placement

The OPC-100 (Outer Patrol Carrier), a general-duty external carrier with multiple sewn-in utility pockets and pouches. Large utility pockets include elastic to hold utility items. Includes handcuff pouch, flashlight loop, and small utility pockets.



The Delta LTC (Lightweight Tactical Carrier), a similar externally worn carrier with front and back pockets accommodating rifle plate sizes of up to 10" × 12". Also included is an integrated webbed MOLLE-style grid.



The EMS (Emergency Medical Services) Carrier, similar to the OPC-100 Carrier but provides larger utility pockets, reflective trim and color variations to accommodate emergency medical services and other specialty applications.



Item	Description	Size
A62518	OPC-100 10078711	Small
A62520	OPC-100 10078712	Medium
A62522	OPC-100 10078713	Large
A62523	OPC-100 10078714	X Large
A62524	Delta LTC 10078719	Small
A62525	Delta LTC 10078720	Medium
A62526	Delta LTC 10078782	Large
A62527	Delta LTC 10078722	X Large
A62528	EMS Carrier 10078715	Small
A62529	EMS Carrier 10078716	Medium
A62530	EMS Carrier 10078717	Large
A62531	EMS Carrier 10078718	X Large

Deluxe Tactical Duffel Bag



- Rubberized PVC bottom
- Cordura nylon water resistant
- Available in 3 stock sizes
- Main compartments stores respirator, protective clothing, boots
- Front Pocket for respirator cleaning supplies, flashlight, knife
- Side Pockets store first aid kit, goggles, spare cartridges, etc.
- Detachable/adjustable shoulder strap
- I.D. Tag
- Logo imprinting done in house
- Available in tactical black only
- #10 Heavy duty zipper

Item	Description
40811	Deluxe Tactical Duffel Bags (24" × 12" × 10")
40813	Deluxe Tactical Duffel Bags (24" × 10" × 10")
40816	Deluxe Tactical Duffel Bags (28" × 14" × 13")

Need Help or Have a Question? Want to Place an Order?

Please Call Any of Our Highly Trained Customer Service Representatives Today!

800-767-6933



Aramsco

Advanced Combat Helmet (ACH)

The MSA Advanced Combat Helmet (ACH) delivers the world's most advanced ballistic and impact head protection, with unsurpassed comfort for long-term use. The helmet's low profile design reduces the risk of interference in target acquisition and ensures compatibility with NVGs (night-vision goggles), MSA's CBRN (Chemical, Biological, Radiological, and Nuclear) Gas Masks, and MSA's communication devices.



An innovative suspension system of movable comfort pads (which are attached with Velcro disks to the inside of the helmet) provides customized sizing and superior comfort. The sized pads conform to the shape of your head to distribute the helmet's weight evenly and comfortably. Simply adjust and move the absorbent pads for a flexible, personalized fit.

Tested under fire
The MSA ACH was developed for the U.S. Military Special Operations Command, meeting stringent requirements and unprecedented demands, and setting new performance standards. The U.S. Army was so impressed that MSA's ACH was adopted as the standard of issue for all troops deploying to the Iraq/Afghanistan Operations Theatre.

The ACH has been credited with "taking the bullet" and saving several soldiers' lives during combat. It was named one of the 10 Best Inventions of 2002 by the US Army Material Command. Now this same helmet, battle-tested in Iraq and Afghanistan, is available for YOU in Law Enforcement.

The best protection, stability, and comfort available.
The helmet shell
- Comes in 2 helmet sizes (Medium, Large) to accommodate most head sizes
- Is available in black or dark green
- Provides Level IIIa ballistic protection
- Is tested for ballistic performance from -40°F (-40°C) to 158°F (70°C)
- Offers unsurpassed impact protection and ballistic-rated hardware

The comfort pads
- Are available in two sizes for optimal comfort and fit
- Provide a customized fit through fully adjustable pads
- Improve weight distribution, thus promoting comfort and balance
- Help dissipate impact energy for protection from head trauma
- Absorb moisture, so you stay drier
- Meet all the chemical-resistant tests required by the U.S. Army
- Are easily cleaned with a damp cloth

The 2-piece replaceable chin strap
- Has a 4-point attachment system
- Is quickly adjusted to fit your face
- Has a comfortable, supportive neck pad

Like the battle-proven MSA ACH worn by our troops,
- You get a firm yet comfortable fit, even during extreme maneuvers
- Stability is maintained, even with helmet attachments such as NVG
- You can attach accessories such as goggle retainers and helmet covers
- You can add superior communication capabilities, by adding the battle-proven MICH Communication System

Ballistic Protection from ACH
The MSA ACH is designed to exceed the NIJ 0106.01 standard Level IIIa protection, and U.S. Military fragmentation specifications as listed below:
- 2 grain RCC @ 4075 fps
- 4 grain RCC @ 3450 fps
- 16 grain RCC @ 2425 fps
- 64 grain RCC @ 1700 fps

Item	Size	Weight gms(lbs)	Pad Size	Head Size(ISO)	Head Size(US)	Color
52901	Medium	1400 (3.0)	No. 8	52 - 56	6 ½ - 7	Black
52902	Medium	1400 (3.0)	No. 6	56 - 58	7 – 7 ¼	Black
52903	Large	1450 (3.25)	No. 8	58 - 60	7 ¼ – 7 ½	Black
52904	Large	1450 (3.25)	No. 6	60 - 62	7 ½ – 7 ¾	Black
52905	Medium	1400 (3.0)	No. 8	52 - 56	6 ½ - 7	Green
52906	Medium	1400 (3.0)	No. 6	56 - 58	7 – 7 ¼	Green
52907	Large	1450 (3.25)	No. 8	58 - 60	7 ¼ – 7 ½	Green
52908	Large	1450 (3.25)	No. 6	60 - 62	7 ½ – 7 ¾	Green

Chemical Protective Apparel

LANX

LANX Fabric Systems comprise a family of NBC products that are absorbent, durable, air permeable, user comfortable and can be fire resistant, as required. The base absorption technology is polymerically encapsulated activated carbon, an innovative and unique technology that provides exceptionally uniform carbon distribution and chemical protection.

Chemical Protective Overgarments (CPO)

The LANX Chemical Protective Overgarment combines the LANX Modified Type I liner fabric meeting the protective requirement of MIL-U-44435 with a non-flame resistant (NFR) shell fabric (MIL 44436 or a flame resistant (FR) shell fabric This protective system provides excellent vapor, aerosol and liquid protection. The LANX CPO is the official protective apparel used at the Center for Domestic Preparedness at Ft. McClellan, Alabama, where first responders train in a live chemical warfare agent environment, as well as numerous police and emergency service agencies. The CPO is lightweight, comfortable and offers extended protection in a chemical warfare environment.



Woodland



Blue

Chemical Protective Undergarment (CPU)

The LANX Chemical Protective Undergarment provides outstanding vapor and aerosol protection. CPUs made with LANX Type I Fabric (per Military specification MIL-U-44435) are the only CPUs approved for use by the U.S. Military based on the JSLIST program. End users include the U.S. Special Forces, Army/Navy/Marine Corps Aviation, Police and other emergency response agencies.

The LANX CPU features tailorable stretch for good fit and user comfort, enhanced flash fire protection, permeable construction for reducing heat stress, and serves as the flexible basis for a number of protective ensembles and applications. In addition to the military, the CPU enjoys popularity with police tactical teams, bomb squads, crowd control units, National Guard WMD Civil Support Teams as well as other agencies with first response operational requirements.





Item	Description	Size
Woodland CPO Jacket		
50702	Chemical Protective Jacket	Med.-Short
50703	Chemical Protective Jacket	Med.-Reg.
50704	Chemical Protective Jacket	Med.-Long
50705	Chemical Protective Jacket	Lg.-Reg.
50706	Chemical Protective Jacket	Lg.-Long
Woodland CPO Pants		
50707	Chemical Protective Pants	Med.-Short
50708	Chemical Protective Pants	Med.-Reg.
50709	Chemical Protective Pants	Med.-Long
50710	Chemical Protective Pants	Lg.-Reg.
50711	Chemical Protective Pants	Lg.-Long
Desert CPO Jacket		
50712	Chemical Protective Jacket	Med.-Short
50713	Chemical Protective Jacket	Med.-Reg.
50714	Chemical Protective Jacket	Med.-Long
50715	Chemical Protective Jacket	Lg.-Reg.
50716	Chemical Protective Jacket	Lg.-Long
Desert CPO Pants		
50717	Chemical Protective Pants	Med.-Short
50718	Chemical Protective Pants	Med.-Reg.
50719	Chemical Protective Pants	Med.-Long
50720	Chemical Protective Pants	Lg.-Reg.
50721	Chemical Protective Pants	Lg.-Long

Also available in flame retardant.

Item	Description	Size
CPU Shirt without Hood		
50722	Chemical Protective Shirt without Hood	32
50723	Chemical Protective Shirt without Hood	34
50724	Chemical Protective Shirt without Hood	36
50725	Chemical Protective Shirt without Hood	38
50726	Chemical Protective Shirt without Hood	40
50727	Chemical Protective Shirt without Hood	42
CPU Shirt with Hood		
50728	Chemical Protective Shirt with Hood	32
50729	Chemical Protective Shirt with Hood	34
50730	Chemical Protective Shirt with Hood	36
50731	Chemical Protective Shirt with Hood	38
50732	Chemical Protective Shirt with Hood	40
50733	Chemical Protective Shirt with Hood	42
CPU Pants		
50734	Chemical Protective Pants	26
50735	Chemical Protective Pants	28
50736	Chemical Protective Pants	30
50737	Chemical Protective Pants	32
50738	Chemical Protective Pants	34
50739	Chemical Protective Pants	36
50740	Chemical Protective Pants	38
50741	Chemical Protective Pants	40
50742	Chemical Protective Pants	42

Other Sizes and Colors Available - Call for More Information

Accessories: LANX also offers accessories such as glove liners, integrated gloves, boot liners and balaclavas.

Tychem® TK is the newest line of DuPont protective fabric. Specifically developed for protection against toxic, corrosive gases, liquids and solid chemicals, this high-performance chemical barrier fabric is perfectly suited for industrial, Hazmat, and domestic preparedness applications. Tychem® TK offers dependable protection with proven performance over a wide range of chemicals.

Wide-Ranging Protection

Tychem® TK exhibits outstanding chemical barrier properties. An extremely durable fabric that's puncture and tear-resistant, its barrier has been tested against 260 challenging chemicals. Excellent permeation data from stringent ASTM testing substances the uncompromised protection available with Tychem® TK.

High Visibility

The lime-yellow color of Tychem® TK is highly visible in both bright and dim light, offering greater safety in emergency situations. Easily seen in smoky or hazy environments, Tychem® TK is ideal for hazardous material handling domestic preparedness emergency response and transportation emergency teams.

Material Composition

Tychem® TK chemical barrier fabric is unique, consisting of a high strength high tear-resistant, 100% nonwoven fabric sandwiched between proprietary non-halogenated films.

Tychem® TK
Level A Hazmat Suit



Mfg. Model TK640
Level A Deluxe Fully encapsulated front entry vapor-protective suit (Level A), expanded back, sealed seams inside and out, 48" zipper, double storm flap with Velcro®, 2 layer faceshield (10 mil Teflon®/40 mil PVC), 3 layer glove combination of Butyl®, North® Silvershield®, and outer knit Kevlar® , 2 Pirelli® valves, attached sock boots with boot flaps, 1 ½" waist belt with 3 belt loops sewn (inside) and sealed. Storage bag included.

Item	Size
50830	Small
50831	Medium
50832	Large
50833	X Large
50834	2X Large

Mfg. Model TK650 - Level A Deluxe Fully encapsulated rear entry vapor-protective suit (Level A), expanded back, sealed seams inside and out, 48" zipper, double storm flap with Velcro®, 2 layer faceshield (10 mil Teflon®/40 mil PVC), 3 layer glove combination of Butyl®, North® Silvershield®, and outer knit Kevlar®, 2 Pirelli® valves, attached sock boots with boot flaps, 1 ½" waist belt with 3 belt loops sewn (inside) and sealed. Storage bag included.

Item	Size
50604	Small
50605	Medium
50606	Large
50607	X Large
50608	2X Large

Tychem® TK
NFPA 1991
Certified Garments



NFPA 1991 is the Standard on Vapor Protective Ensembles for Hazardous Materials Emergencies. Tychem R TK 645 NFPA 1991 Ensemble: Fully encapsulated front entry vapor-protective suit (Level A), expanded back, sealed seam plus inside and out, 48" zipper, double storm flap with hook and loop closure, 2 layer faceshield (10 mil Teflon®/40 mil PVC), 3 layer glove combination of Viton®, North Silvershield®, and outer knit Kevlar®, 3 exhaust valves, attached sock boots with boot flaps, 1 ½" waist belt with 3 belt loops sewn (inside) and sealed. Includes aluminized fiberglass overcover. Storage bag and Bata Hazmax® boots included.

Item	Description	Size
50820	Rear Entry	Small
50821	Rear Entry	Medium
50822	Rear Entry	Large
50823	Rear Entry	X Large
50826	Front Entry	Small
50827	Front Entry	Medium
50828	Front Entry	Large
50829	Front Entry	X Large

Test Kit for Level A and NFPA



Kit features an easy to read Magnehelic pressure gauge, digital timer, sturdy brass and steel fittings, plastic hose and connectors enclosed in a waterproof case. Complete instructions included.

Item	Description
50293	Level A
50189	NFPA
56289	Universal Pressure Test Kit (Includes adapters for testing Dupont Suits. Blower included)

Phase Change Cool Vests

Enhance Comfort and Improve Performance While Wearing Hazmat Protective Clothing



Item 40696



Item 40683

Maintain a constant temperature of 58°F for up to 3 hours.

- Safe
- Durable
- Easy to use
- Lightweight
- Reusable
- Washable
- Adjustable

Phase Change Cooling Vests (58°F) are front opening and have both height and girth adjustments using a VELCRO® strap and buckle system. Each unit includes one vest/carrier and a set of four Phase Change Cooling inserts. When deployed with a single set of inserts, the Phase Change Cooling Vest weighs approximately 6 lbs. The weight is distributed evenly over the torso via a contoured design and snug fit. Cooling duration can be extended up to 3 hours by placing two inserts in each pouch. Users can achieve continuous cooling by rotating an extra set of inserts.

Available Sizes
Medium/Large 100 - 175 lbs
Large/XLarge 175 - 250 lbs
(Custom Sizes Available Upon Request)

Available Fabrics and Colors
Cotton, INDURA™, NOMEX™
Standard Color: Royal Blue
(Custom Colors Available Upon Request)



Phase Change Cooling Inserts can be activated by placing them in ice water or a refrigerator for 30 minutes. The 58°F cooling inserts consist of a unique alkane blend mechanically sealed in polyurethane. The inserts are non-toxic, non-flammable and can be reused over and over again.

Please call for more details

Item	Description
40696	Phase Change Cooling Vest (Cotton)
40681	Phase Change Cooling Vest (INDURA™)
40682	Phase Change Cooling Vest (NOMEX™)
40683	Phase Change Cooling Vest with Built-In Hydration Pack
40697	Extra Set of Phase Change Cooling Inserts

Air Activated Heating Vests



Colors: Sandstone (SS), Royal Blue (RB), Black (B), Custom

Each vest includes 8 Body warmers

- Cost effective way to beat the winter chill
- Enhanced comfort and improved performance
- Can be worn under protective apparel
- Safe and easy to use

Item	Description
40847	Air Activated Heating Vest, Small
40896	Air Activated Heating Vest, Large
40898	Air Activated Heating Vest, X Large
	Air Activated Heating Vest, Custom

Chemical Resistant Synthetic Blend Gloves



Designed to replace Butyl gloves in the domestic preparedness market when using a double glove system*, the gloves passed warfare agent testing with the following chemicals:

- Distilled Sulfur Mustard (HD)
- Lewisite (L)
- Sarin (GB)
- V-Agent (VX)
- Dimethyl sulfate (DMA)
- The Inner Glove used during testing was the SAFESKIN* purple nitrile Glove

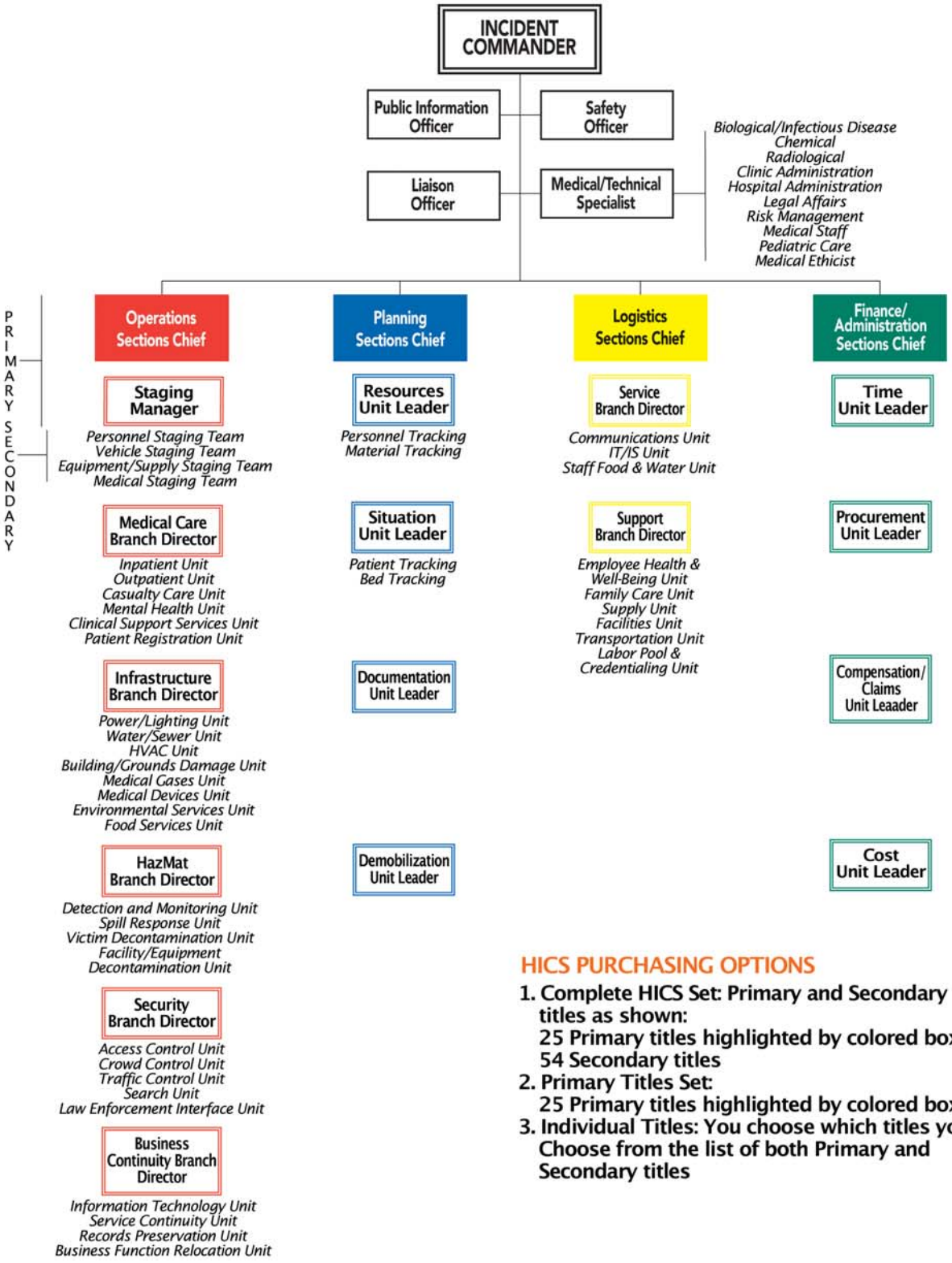
- Durability
- Dexterity
- Cut/puncture resistance
- Protection from oils, fats, solvents and other materials
- CE Certified
- Diamond Grip assures maximum safety in handling wet smooth objects, cutlery and tools
- Flock lining provides maximum comfort and easy access/removal

13" 24 mil Black Chemical Resistant Synthetic Blend Glove

Item	Size
30381	Small
30382	Medium
30383	Large
30384	X Large
30385	2X Large

HICS

HICS HOSPITAL INCIDENT COMMAND SYSTEM



HICS PURCHASING OPTIONS

1. **Complete HICS Set: Primary and Secondary titles as shown:**
   25 Primary titles highlighted by colored boxes
   54 Secondary titles
2. **Primary Titles Set:**
   25 Primary titles highlighted by colored boxes
3. **Individual Titles: You choose which titles you need**
   Choose from the list of both Primary and Secondary titles

HICS
Hospital Incident Command System

Serious emergency situations occur when least expected, requiring personnel to perform with the utmost of efficiency and professionalism. HICS is an industry recognized organizational chart that clearly defines a chain of command to assist hospitals in managing their staff in the event of disaster. To implement this system, Brite Threads manufactures four different HICS vest models, available in color and title options to accommodate your specific program.

Black
Red
Yellow
Blue
White
Green

Color Selection
- Cloth vest, 65% cotton/35% polyester, binding available in six color options shown on the left.
- 100% polyester mesh vests available in Orange.

HICS A Series Vest Set



- 401

Features
- White cloth vest with color coded binding
- Night time reflective circles on front and back
- Includes black title on front and back
- Two front lower patch pockets
- Webbing for name tag
- Optional: one color hospital logo at additional charge

Item	Description
40965	HICS A Series Vest System

HICS B Series Vest Set



- 402

Features
- White cloth vest with color coded binding
- Horizontal night time reflective stripes front and back
- One right lower patch pocket
- Webbing for name tag
- Includes black title on front and back

Item	Description
40966	HICS B Series Vest System

HICS C Series Vest Set



- 403

Features
- White cloth vest with color coded binding
- Includes black title on front and back
- One right lower patch pocket
- Webbing for name tag

Item	Description
40967	HICS C Series Vest System

49 Vests per set - not returnable.
Vests can be purchased separately.
Please call for more details.

Incident Command Vests

Incident command vests offer the ultimate in flexibility. Choose from a one size fits all style or our popular closed sides style.

ML KISHIGO
THE ORIGINAL HIGH VIS EXPERTS

3700 Series

- Poly/cotton fabric with matching color vest trim
- 1" wide horizontally configured high intensity Reflexite® reflective tape
- Available colors: orange, white, dark blue, light blue, royal blue, green, black, tan, yellow and burgundy
- Laminated paper inserts sold separately
- One upper right chest one pencil division pocket and inside lower right patch pocket
- Clear plastic card holder for standard 8 ½" × 11" paper folded in half to 4 ¼" × 11" (back) and 3" × 5" card holder (front)
- One size fits most



Model 3708

Item	Description
40289	Red Incident Command Vest One Size Fits Most

HICS Vest

- White polycotton fabric
- Vest color trim determined by HICS (Hospital Incident Command System) specifications
- Two lower patch pockets
- Name tag webbing upper right check
- 3" front reflective circle and 5.5" back reflective circle, both with crosses that match vest trim color
- Title on front and back
- One size fits most



Model
401-H01

Item	Description
40239	HICS 'A' Series Vest One Size Fits Most

4700 Series

- Poly/cotton fabric with matching color vest trim
- One lower right outside large pocket with one division
- One lower left inside large notebook/ flashlight pocket
- Hook and loop front closure
- 2" 3M™ Scotchlite™ reflective material high intensity tape
- Available in sizes Small thru 5X-Large
- Laminated paper inserts sold separately
- Available colors: red, white, dark blue, light blue, royal blue, black, orange, tan, burgundy and yellow
- Clear plastic card holder for standard 8 ½" × 11" paper folded in half to 4 ¼" × 11" (back) and 3" × 5" card holder (front)
- Ten piece minimum order



Model 4705

Item	Description
40208	Green Deluxe Incident Command Vest Size Small
40209	Green Deluxe Incident Command Vest Size Medium
40210	Green Deluxe Incident Command Vest Size Large

Pro200 Series

- Upper mesh and lower solid fabric
- Left chest mic tab holder
- 4-season adjustability - velcro allows for accurate sizing in any weather, even over bulky coats
- When not in use, vest folds into convenient storage pouch
- ANSI Compliant
- Sizes: M-XL, 2XL-4XL



Model 8051

Item	Description
A36135	Pro200 Series Vest Size Medium–X Large
A36136	Pro200 Series Vest Size 2X Large–4X Large

SRVA Voice Amplification Radio Accessory

Providing Amplified Voice Communication for Facemask/In-Suit Applications

The SRVA was developed by CON-SPACE as a new concept in radio accessory functionality; it combines a Two-Way Radio Accessory with a Voice Amplifier. The device can utilize any of the Armory accessories to facilitate voice communication. The amplification function allows users to speak at normal levels and be understood while wearing full face or half mask respiratory protection, PAPR's or protective suits. This makes it ideal for use in a wide range of applications including; Mass Decontamination, Drug Lab Takedowns, Nuclear Suits, Clean Rooms, Riot Squads, EOD etc…

In addition, the SRVA incorporates a portable Two-Way Radio Accessory into the same housing as the Voice Amplifier. It features a combination PTT Switch and Speaker Grill (patent pending) to provide the user with quick and easy access to their radio network. The unit can operate with virtually any make or model of portable radio.



Available Speaker/Microphone Options:



Bulldog Headset



Bullet Headset



Sidewinder Headset



Talon Throat Mic

Advantages

- Amplify your voice outside of a protective suit or facemask
- Simple and easy to use
- Can withstand heavy impact, rugged use and corrosive or hazardous substances
- Works in conjunction with a number of speaker/microphone options
- Works in conjunction with your portable radio and provides a large, additional remote PTT

Features

- Large, easy to locate Push-to-talk
- Volume Control Knob/On-Off Switch
- Quick Connect/Disconnect Cable
- Low Battery Indicator LED
- In-molded Lanyard Attachment
- 360 Degree Swivel Belt Clip
- Three 'AA' Batteries (included)
- Carbon Filled Polycarbonate Housing

Applications

- Hazmat Response
- Tactical Response
- Mass/Hospital Decontamination
- NBC/CBRN Operations
- Emergency Medical Response
- Clean Room Operations

Specifications for SRVA Base Unit	
Type of Mic	Interchangeable
Push-to-Talk	Tactile
Battery Type	3 × 1 ½" V- AA cells
Battery Life	40 Hours
Weight	13.7 oz/390g
Colors	Black
Water Resistance	Yes
Speaker Freq. Response	450 Hz to 9 kHz
Speaker Material	Mylar
Adjustable Mounting	Yes
ROHS Compliance	Yes
IP Compliance	Yes, IP-57
EMC Compliance	Yes
Warranty	18 Months
Type of Product	Radio Voice Amplifier

*SRVA cannot be purchased without a separate Radio Interface Cable

Item	Description
A35712	SRVA* Base Unit

SR65M Push-to-Talk Radio Accessory

Providing Voice Communication for Facemask In-Suit Applications

The SR65M (Modular) Radio Accessory PTT can be configured to attach to virtually any portable two-way radio. The SR65M is intrinsically safe, totally waterproof and dust tight. The unique CON-SPACE accessory Quick Connect allows the PTT to be attached to any of the Armory communication devices. This adaptability allows the same system to be tailored to a specific user's workplace environment or operational needs. Units are available in either standard "clicking" switch (with tactile feedback) or silent switch operation. Standard features include rugged, watertight enclosure, sealed cable glands and strain reliefs, 360 degree swivel belt clip, remote PTT connection point.

From explosive atmospheres to high noise, facemasks, protective suits and beyond the SR65M is part of the most flexible, adaptable and unique radio accessory solution on the market today.

CON-SPACE COMMUNICATIONS
Safety in Communication®



Advantages
- Communicate clearly even within a protective suit or facemask
- Works in conjunction with your portable radio and provides an easy to locate remote PTT
- Can withstand heavy impact, rugged use and corrosive or hazardous substances
- Works in conjunction with a number of speaker/microphone options
- Simple and easy to use

Features
- Large, easy to locate Push-to-talk,
- Push-to-talk available in Tactile or Quiet PTT options
- Quick Connect/Disconnect Cable
- 360 Degree Swivel Belt Clip
- Carbon Filled Polycarbonate Housing
- Intrinsically Safe Approved

Applications
- Hazmat Response
- Tactical Response
- Mass/Hospital Decontamination
- NBC/CBRN Operations
- Emergency Medical Response
- Clean Room Operations

Available Speaker/Microphone Options


Bulldog Headset


Bullet Headset


Sidewinder Headset



Talon Throat Mic

Remote Push-to-Talk Options:


Ring Switch


Velcro Switch

Item	Description
A35713	SR65M* Base Unit

Specifications for SR65M Base Unit	
Type of Mic	Interchangeable
Push-to-Talk	Tactile/Quiet
Self Powered	n/a
Battery Type	n/a
Battery Life	n/a
Weight	7.1 oz/202g
Colors	Black
Water Resistance	Yes
Speaker Freq. Response	n/a
Speaker Material	n/a
Adjustable Mounting	Yes
ROHS Compliance	Yes
IP Compliance	Yes, IP-57
EMC Compliance	TBD
Warranty	18 Months
Type of Product	PTT Radio Interface Unit

*SR65M cannot be purchased without a separate Radio Interface Cable

Phantom Push-to-Talk Throat Mic

For Extremely Tactical Voice Communication

CON-SPACE COMMUNICATIONS
Safety in Communication®

Our Revolutionary Throat Mics just got better!!…these include built-in Push-to-Talk switches. The Phantom Series is the latest innovation from CON-SPACE Communications Ltd. It brings the best of two CON-SPACE products together to form a much more efficient and effective communication device. This unique Throat Mic and PTT (Push-To-Talk switch) was designed specifically for Military and Law Enforcement users who want a reliable accessory for voice communication that is streamlined, easy to use and can be adapted in the field, for a variety of operational scenarios. Whether it involves Gas Masks, Breathing Apparatus, Protective Equipment, Bad Weather, Noisy Weapons, Noisy Vehicles or just plain noisy surroundings the Phantom Series has you covered. The PTT switch on the Phantom is located on the rear of the throat mic housing under the strap. It requires minimal pressure (3.0N or 0.67 pound force) to activate the integral switch and it is rated for 500,000 cycles of operation. By pressing the PTT switch the user ensures a solid connection between the throat and the microphone element. Additionally the Phantom contains breakthrough technology that is revolutionary in Throat Mic design. It has the ability to function with digitally encrypted radio networks. And the two prong speaker option plug allows users to attach their selection of CON-SPACE Speaker Options to further customize the product. You will never have to hunt for the PTT switch again; you will always know exactly where it is. When you are crawling on the ground you don't have to worry about it going off by accident. The Phantom is sealed and waterproof, the hypo-allergenic silicone rubber housing is held comfortably in place with a slip-resistant, expanding neck band, adjustable to just about anyone's neck.





Available Speaker/Microphone Options

Universal Speaker



Over Ear Speaker



Tactical Speaker



Specifications for Phantom Base Unit	
Type of Mic	Proprietary
Push-to-Talk	Tactile
Self Powered	n/a
Battery Type	n/a
Battery Life	n/a
Weight	1.5/42
Colors	Black
Water Resistance	Yes
Mic Freq. Response	100 Hz to 10 kHz
Mic Sensitivity	-40 +/- -2dB
Adjustable Mounting	Yes
ROHS Compliance	Yes
IP Compliance	TBD
Warranty	18 Months
Type of Product	Throat Microphone/PTT

* Phantom cannot be purchased without a separate Radio Interface Cable

Advantages
- Communicate in high-to-low noise environments
- PTT activation ensures a solid connection between throat and mic element
- Functions with digitally encrypted radio networks
- A number of versatile speaker options available
- Simple and easy to use

Features
- PTT Microphone
- Nexus Plug (for Speaker Options)
- Sealed and Waterproof
- Hypo-Allergenic Silicone
- Rubber Housing
- Slip Resistant Neck Band

Applications
- Tactical Response
- Military Operations
- CERT Operations

Item	Description
A30593	Phantom* Base Unit

CSVAi Voice Amplification Unit

Providing Amplified Voice Communication for Facemask/In-Suit Applications

CON-SPACE COMMUNICATIONS
Safety in Communication®

The CSVAi is an intrinsically safe approved portable voice amplifier that when attached to a throat mic or lightweight boom mic headset amplifies the user's voice. It allows users to speak at normal levels and be clearly understood while wearing facemasks, PAPR'S (Powered Air Purifying Respirators) and/or protective suits. It is ideal for use in a wide range of applications including those involving mass decontamination. First Responders, Doctors, Nurses and emergency personnel wearing any type of protective mask or hood. In Industry the CSVAi can be used to improve person to person communication while wearing protective suits.





Available Speaker/Microphone Options:

Throat Mic



Boom Mic



Specifications for CSVA Base Unit	
Type of Mic	Interchangeable
Push-to-Talk	n/a
Self Powered	Yes
Battery Type	3 × 1 ½" V- AA cells
Battery Life	40 Hours
Weight	13.9 oz/393g
Colors	Black
Water Resistant	Yes
Speaker Frequence. Response	450 Hz to 9- kHz
Speaker Material	Mylar
Adjustable Mounting	Yes
ROHS Compliance	Yes
IP Compliance	TBD
EMC Compliance	TBD
Warranty	18 Months
Type of Product	Voice Amplifier

Advantages
- Amplify your voice outside of a protective suit or facemask.
- Can withstand heavy impact, rugged use and corrosive or hazardous substances.
- Works in conjunction with a Throat or Boom Mic.
- Simple and easy to use

Features
- Large Amplified Speaker
- Volume Control Knob/On-Off Switch
- Quick Connect/Disconnect Cable
- Low Battery Indicator LED
- In-molded Lanyard Attachment
- 360 Degree Swivel Belt Clip
- Three 'AA' Batteries (included)
- Carbon Filled Polycarbonate Housing

Applications
- Hazmat Response
- Tactical Response
- Mass/Hospital Decontamination
- NBC/CBRN Operations
- Emergency Medical Response
- Clean Room Operations

Item	Description
A33886	CSVAi with Throat Mic

Hardline Communication Kits

CON-SPACE COMMUNICATIONS
Safety in Communication®

CON-SPACE communication equipment is quickly becoming the "First Responder's Choice" for Confined Space Rescue operations and Hazardous work areas. It is designed to survive harsh environments and is of very rugged, quality construction. CON-SPACE Hardline Communication Kits provide simultaneous two-way communication. First responders can talk with each other much like a conference call, regardless of what type or make of breathing apparatus they may be wearing. CON-SPACE systems are hard wired to provide safe, reliable, clear communication that is not subject to dead spots, electro-magnetic or radio frequency interference, or unwanted monitoring.

- Easy to use
- Lightweight and portable
- Battery powered
- Completely waterproof
- Chemical resistant
- Intrinsically safe
- Rugged construction
- Environmentally sealed

1st Responder Rescue Kit 1P



Configured for a team of five Rescuers: four Entrants, one Attendant, for 100-foot entry. Additional Cable can increase entry distance up to 1,500 feet. Rescue Kit 1 can be expanded for up to 14 people using available options and accessories. Weight: 52 lbs.

- 1 CSI-2100 Command Module
- 1 Power Talk Box Module
- 4 100 ft. Communication Cable
- 1 Boom Mic Wind Screen
- 1 50-ft. Communication Cable
- 1 Splitter Box, Double with mute
- 1 System 2000 Carrying Case
- 4 Speaker Harness
- 1 Boom Mic Wind Screen
- 2 Operator Extension Cables with Mic Mute Switch -01', 20'
- 1 Heavy Duty Clothing Clip
- 1 System 2000 Carrying Case
- 4 Face Mask ComSet with Universal Speaker
- 1 Head Set (Single, behind head-32")

Item	Description
A35714	1st Responder Rescue Kit 1P

Decontamination Kit 1



Provides simultaneous two-way voice communication between five people in a Decontamination Team, wearing facemasks and clothed in air fed encapsulated suits. Configured for a Decontamination Team of five; Administrator; Washer/Wetter; Stripper; Flusher; Clothier. The system is waterproof and resistant to chemicals. Can be expanded for up to 14 people using available options and accessories. Communication Cable can be increased up to a maximum length of 1500 feet per team member.

- 1 CSI-2100 Command Module
- 1 Head Set (Single, behind head-32")
- 4 Speaker Harness
- 1 Clothing Clip - Heavy Duty
- 1 Boom Mic Wind Screen
- 1 System 2000 Carrying Case
- 1 Boom Mic Wind Screen
- 1 Double Splitter with Mic Control Switch
- 4 Facemask Communication Set with Universal Speaker
- 1 20' Ext. Cable with Mute
- 4 100' Communication Cable with Strain Relief and Snap Hook

Item	Description
A35715	Decontamination Kit 1

Bomb Disposal Kit



Private communication for team of three Bomb Specialists wearing face shields and full body armor. System is NON-RF emitting - conforms to MIL-STD 461. Intrinsically safe approved. Additional cable can increase entry distance up to 1,500 feet.

- 1 CSI-1100 Mini Module
- 1 Head Set (Single, behind head-32")
- 2 Speaker Harness
- 1 Clothing Clip - Heavy Duty
- 1 Boom Mic Wind Screen
- 1 System 1000 Carrying Case
- 1 Single Cable Splitter
- 2 Facemask Communication Set
- 1 Boom Mic Wind Screen
- 1 10' Cable with Mute Switch
- 2 100' Communication Cable with Strain Relief and Snap Hook

Item	Description
A35716	Bomb Disposal Kit

Victim Locator Kit



For Structural Collapse the Victim Locator Kit includes the unique CON-SPACE Rescue Probe designed to detect and communicate with victims trapped in collapsed structures. The Probe is a stainless steel, rugged, waterproof, two-way communication device which can be lowered or pushed through rubble to contact victims.

- 1 Rescue Probe
- 1 CSI-1100 Mini Module
- 1 Head Set (Single, behind head -32") with Mic Mute Switch)
- 1 Boom Mic Wind Screen
- 1 System 1000 Carrying Case
- 1 25' Communication Cable
- 1 PVC Pipe Coupler
- 1 Boom Mic Wind Screen
- 1 1' Mic Mute Switch
- 1 50' Lowering Rope with Snap Hook (not shown)

Item	Description
A35717	Victim Locator Kit

SOUNDCOMMANDER®

Public Address/Loudspeaker Systems

True, High Power, Portable PA to Inform, Command and Control the Masses


SC1000 Vehicle Mounted

SoundCommanders® are ruggedized, full featured, portable, high-output, public address/loudspeaker systems, designed for tactical and operational use by agencies engaged in mass notification, military, emergency management, law enforcement, fire, and rescue missions. They project clear, undistorted voice audio and warnings over exceptional ranges (750-2500 meters) with directional or wide area coverage.



SC1000CP Command Pack is the basic stand alone, fully integrated SOUNDCOMMANDER® system. It is portable, self-contained, and capable of clear, articulate voice and warning sound projection to distances up to 1000 meters. It includes: a full featured wide fidelity controller/amplifier, hands free headset microphone, internal loudspeaker, charger, cables, and integrated padded Cordura nylon carry case.

SC1000EP Expansion Package vastly enhances the capability of the SC1000 Command Pack, by adding full wireless operation, an external SC loudspeaker with 50' cable and padded soft case, additional microphone, to accommodate two speakers simultaneously, 15 amp auxiliary AC power supply, adjustable heavy duty tripod stand and soft case and a hard transport/storage case with wheels and pull handle, to store the SC1000CP and expansion accessories.

SC1000LS Land/Sea System is a permanently installed version of the SC1000 system for use in vehicles, boats, buildings and other structures. It is powered from the vehicle or other external power source. The LSA includes two external Roof Mount loudspeakers, a push-to-talk microphone and mounting hardware.

SC1000MC Mobile/Convertible System has identical performance capabilities as the Command Pack, but with the added virtue of both portable operation and semi-permanent installed vehicle operation. It includes three loudspeakers, two for vehicle mount and the third for mounting on the system when in portable, stand alone mode. It can be further expanded with the addition of the SC1000 Expansion Package.





SC3000 and SC3600 systems deliver high quality audio and siren output at extremely high volumes (up to 134dB RMS) to support a variety of operations, including: long range voice projection, portable audio support at major incident sites, penetration of destroyed building rubble, PA from aerial or vehicle mounted platforms and other situations where, longer ranges are required. The systems employ special high output speaker arrays projecting clear audio to 2000 meters for SC3000 and beyond 2000 meters for the SC3600.

SoundCommander® systems are used by U.S. and allied forces in Iraq and around the world, and by law enforcement, fire, and emergency services, in support of many special operations, such as the 2002 G8 Summit.

Item	Description
55970	SC1000CP Command Pack-Basic System
55571	SC1000EP Expansion Package
55971	SC1000LS Land/Sea System

Item	Description
55572	SC1000MC Mobile/Convertible System
55573	SC3000 PA System
55574	SC3600 PA System





Supreme Pro™ High Noise Communication Systems



The Supreme Pro Communication System integrates with ballistic helmets providing unobtrusive communications and hearing protection in areas of loud impulsive sounds, such as areas where weapons may be fired. The system protects your hearing while enabling clear radio communications. Cup-mounted microphones enhance user situational awareness, allowing the user to hear ambient sounds within the environment while protecting your hearing. The communication system is used as either as a stand-alone headset or with MSA's ForceField ACH, Millennium CBRN Gas Mask and eyewear. This noise-canceling boom microphone-based system interfaces with various police radio transceivers and intercom systems.

- Hands-free monitoring
- Functional with gloved hands
- Connects to communication radios via MSA's TacPTT
- Two-way communication with minimal background noise interference
- Lightweight, comfortable, and easy to use
- Superior hearing protection and amplification

TacPTT
A Push-To-Talk assembly is made available for integration with the upper headset assembly. Methods of affixing the PTT assembly to BDUs or protective vests will include military spec hook and loop fastener materials, a mil-spec steel alligator-style clip or velcro. Other options and accessories will be made available including both water-resistant headset inline quick disconnects and remote finger PTTs.



Headband Style



Neckband Style

Item	Description
Headband Style	
A57940	Supreme Pro Headset, Boom Mic R, Nexus
A57864	Supreme Pro Headset, Boom Mic L, Nexus
Neckband Style	
A31962	Supreme Pro Headset, Boom Mic R, Nexus
A31333	Supreme Pro Headset, Boom Mic L, Nexus
Accessories	
A62550	Finger PTT
A62551	Hygiene Kit, Complete with Cushions and Inserts

ESP® II Communications System



The ESP II Communications System, a 1-piece, self-contained, electronic speech projection device, allows wearers to speak normally, yet be heard loud and clear.

- Lightweight, maintains visibility, comfortable to wear, and easy to use
- Compact, rugged; resists water, heat, and impact
- Compatible with handheld radios for clear, long-range communications
- Uses two standard AAA alkaline batteries, which last up to 15 hours

Item	Description
52768	10026265 ESP II Communications System for Millennium Facepiece and Advantage 1000 Facepiece

Need Help or Have a Question? Want to Place an Order?

Please Call Any of Our Highly Trained Customer Service Representatives Today!

800-767-6933



Aramsco
A SAFEGUARD INDUSTRIAL COMPANY

What is the Dräger-Tube® System?

Dräger-Tubes® are glass vials filled with a chemical reagent that reacts to a specific chemical or family of chemicals. A calibrated 100 ml sample of air is drawn through the tube with each stroke of the Dräger accuro® bellows pump. If the targeted chemical(s) is present the reagent in the tube changes color and the length of the color change typically indicates the measured concentration. The Dräger-Tubes® System is the world's most popular form of gas detection.

CMS Analyzer



The CMS Analyzer combines electronics, mechanics, mass flow controller pump system, optics, and software to give you the simplest spot gas detector on the market. It also combines substance specific measuring chips with the electronic based analyzer for an easy-to-use spot-measurement system.

The CMS Analyzer can store up to 50 measurements and recall this data for review. It can be used for exposure measurements, confined space entry, process control, and environmental control. The CMS Analyzer has a UL Intrinsic Safety approval and the MSHA approval for use in methane-air atmospheres.

Size	8.0" × 3.6" × 1.7"
Weight	25.6 oz
Ingress Protection	IP-54, protected against dust and water
Data Capacity	Stores up to 50 measurements
Power Supply	4 × 1.5V (AA) alkaline batteries
Battery Duration	450 min. of analysis time (typically greater than 100 measurement)
Operation Temperature	32-104°F
Approvals	UL: Class I, Division 1, Groups A-D, T4 CSA: Class I, Division 1, Groups A-D, T4 CENELEC: EEx ib IIC T4 MSHA: 2G-4064-0

Item	Description
55847	CMS Analyzer
55842	CMS Analyzer with Remote System

Dräger safety

accuro® Pump

One Handed Operation



- Dräger-Tubes® have been leading the way in gas detection for over 60 years
- Over 200 different Dräger-Tubes® are available for measuring over 500 gases and vapors
- No calibration, no lubrication, no special maintenance
- Always ready to go

Item	Description	Measuring Range
A22932	accuro® Pump	
Item	**Description**	**Measuring Range**
Short-Term Detection Tubes (10 per box)		
A15994	Carbon Dioxide 0.1%/a	0.1-6 Vol.%
A15726	Hydrocarbons 0.1%/b	0.1-1.3 Vol.%
A17832	Hydrocyanic Acid 2/a	2-150 ppm
A15649	Hydrogen Sulfide 1/d	1-200 ppm
A15769	Polytest	Qualitative
Other Tubes Available		Call for Details

The CMS Chip

Measurement Made Accurate



The Chip consists of 10 measurement capillaries filled with substance-specific reagent systems. The gas type, part number and batch number are printed on the chip. A printed bar code on the chip, read by the analyzer optics, contains information about gas type, measuring range and measuring time required for completing the measurement. Each chip is calibrated during manufacturing and is valid for two years.

Item	Chemical	Range
58136	Ammonia	10.0-150 ppm
58135	Ammonia	2.0-50.0 ppm
58138	Benzene	0.20-10.0 ppm
58143	Carbon Dioxide	1,000-25,000 ppm
58145	Carbon Monoxide	5.0-150 ppm
58146	Chlorine	0.20-10.0 ppm
58149	Formaldehyde	0.20-5.0 ppm
58150	Hydrochloric Acid	1.0-25.0 ppm
58152	Hydrocyanic Acid	2.0-50.0 ppm
58155	Hydrogen Sulfide	2.0-50.0 ppm
58164	Nitrous Gases($NO+NO_2$)	0.50-15.0 ppm
58168	Perchloroethylene	5.0-150 ppm
58170	Petroleum Hydrocarbons	100-3,000 ppm
58178	Sulfur Dioxide	0.40-10.0 ppm
58183	Vinyl Chloride	0.30-10.0 ppm

Calibration Gas

Each MSA Calibration Gas Cylinder is shipped with an individual copy of a material safety data sheet (MSDS) and an individual copy of a certificate of analysis. MSA certifies that the gas mixture in calibration gas cylinders was prepared gravimetrically, using NIST traceable weights. The lot number and nominal value of the gas constituents in percent by volume, percent by mass, PPM mass, or volume are specified on the cylinder. The uncertainty statement of the specified nominal value is also listed.



Model RP
Non Reactive



Model RP
Reactive



Econo-Cal
Reactive

Item	Gas Mix	Used For
Non-Reactive Gases, Steel Cylinder, 100 Liters		
A18594	Model RP and R 100 ppm Isobutylene	Sirius
Reactive Gases, Aluminum Cylinders, 58 and 34 Liters		
A18627	Model RP 1.45% Methane, 15% Oxygen, 300 ppm Carbon Monoxide, 10 ppm Hydrogen Sulfide	FiveStar, Orion
A18629	Econo-Cal 1.45% Methane, 15% Oxygen, 300 ppm Carbon Monoxide, 10 ppm Hydrogen Sulfide	FiveStar, Orion
55599	Model RP 1.45% Methane, 15% Oxygen, 60 ppm Carbon Monoxide, 20 ppm Hydrogen Sulfide	Sirius, Altair, Solaris
55600	Econo-Cal 1.45% Methane, 15% Oxygen, 60 ppm Carbon Monoxide, 20 ppm Hydrogen Sulfide	Sirius, Altair, Solaris

Note: Reactive gases have an expiration date listed on each cylinder. This is to ensure the highest quality and accuracy for instrument calibration. Most cylinders have an expiration date of 12 months. Check with MSA Customer Service for the exact shelf life of a particular calibration cylinder.

Regulators



Model RP

Item	Description
A18637	.25 lpm*, 467895
A18638	1.5 lpm, 467896

*Can be used with chlorine and ammonia; replaces P/N 809945.

Gas Miser® Demand Regulator: The Intelligent Regulator



Gas Miser®
Model RP



Gas Miser®
Model BD-20

Designed for use with any MSA Model RP Calibration Cylinder except chlorine and ammonia, the Gas Miser Regulator features an automatic ON/OFF valve that releases gas only on demand. So only the amount of gas needed to calibrate your MSA instrument is delivered accurately. When the calibration is complete, the Gas Miser Regulator shuts off automatically. And, for user convenience, the regulator can stay connected to the cylinder where it remains in a ready state—making it ideal for such fixed installations as work benches and calibration stations. And now, a new Gas Miser Regulator for chlorine and ammonia is available for Model RP cylinders.

Item	Description
A18639	RPM, 710288
A18641	RP, Chlorine and Ammonia, 10034391
A18642	BD-20, with CGA 590 Fitting, 710289

Can't find the item you're looking for?

Call one of our knowledgeable customer service representatives today!



800-767-6933

Sirius® Multigas Detector

One PID, Four Gases...Detects Hundreds of Chemicals



The Sirius Multigas Detector provides users outstanding multifunction capabilities by integrating a high-performance PID (Photoionization Detector) sensor into a 4-gas detector. Users are able to simultaneously monitor for volatile organic compounds (VOCs) with low vapor pressures while measuring for combustible, toxic and oxygen-deficient atmospheres within one reliable, easy-to-use, durable unit.

- MSA's own proprietary PID sensor design (patent-pending) provides users with excellent PID performance including humidity resistance, stable zero readings, and fast response and clear times to enable users to get their jobs done dependably.
- When users need to change or clean a PID lamp, it is so simple with a twist of the lamp holder located conveniently on the front of the instrument.
- Interchangeable Lithium-ion and Alkaline Battery Packs keep instruments running 24 hours a day, 7 days
- Reading measurements for combustible gas, CO, H2S, O2 and VOCs with their character names are clearly and simultaneously exhibited on the display. A noticeably visible battery life indicator is also continuously displayed to inform users of the remaining run time on the unit.

Item	Description
Accessories	
55372	Sampling Line with Quick-Connect, 10-foot Polyurethane
55373	Sampling Line with Quick-Connect, 25-foot Polyurethane
55376	Sampling Line with Quick-Connect, 3-foot Polyurethane Coiled
55377	Probe, 1-foot
55378	Probe, 2-foot
55379	Probe, 8-inch
Calibration Gas Cylinders	
55599	4Gas RP Cylinder
55600	4 Gas Econo-Cal Cylinder

Item	Sirius Multigas Detector Kits	LEL 10.6	eV	02	C0	H2S	Li Ion	10 ft line	1 ft probe	Ret Line	BI Boot	Cor Jac	Cal Kit	Data Log	Blk Cas	Std Cap	Lamp	Cl Kit
55381	Deluxe LEL 4-Gas Lithium Ion PID	X	X	X	X	X	X	X	X	X	X	X	X		X	X		
55382	Deluxe LEL 3-Gas H_2S Lithium Ion PID	X	X	X		X	X	X	X	X	X	X	X		X	X		
55383	Deluxe LEL 3-Gas CO Lithium Ion PID	X	X	X	X		X	X	X	X	X	X	X		X	X		
55384	Deluxe LEL 4-Gas CO Lithium Ion PID Datalog	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
55385	Deluxe LEL 4-Gas Lithium Ion PID less bk/jac	X	X	X	X	X	X	X	X	X			X		X	X	X	

Solaris® Multigas Detector

The Solaris Multigas Detector is an affordable, durable, reliable, easy-to-use portable instrument for detecting the presence of O_2, H_2S, CO and combustible gas. It is designed to withstand rough handling in harsh environments. Best of all, it delivers MSA's commitment to quality at the smallest size and, even smaller price!



Features
Ergonomics Design
For maximum comfort
Alarm System
World-class triple alarm system with 100+ decibel audible alarm, multiple high-intensity visual alarm and strong vibrating alarm.
Display Features
Superior display features simultaneous gas concentration display, backlighting for easy reading and alphanumeric message bar for easy use.
Lightweight
Under 8oz., compact size that makes it easy to wear.
Durable
Case with rubberized armor provides superior protection against liquid and dust ingress (IP 65 rated.)
Long-life Battery
Rechargeable lithium ion battery provides 14+ hours of continuous run time and delivers best-in-class performance in extreme conditions.

TIM System Compatible
Compatibility for computer automated calibration and record-keeping.
Sampling Pump Options
Optional powered sampling pump with extensive contaminant filtering system.
Warranty
Outstanding 2-year, all-inclusive warranty.

Item	Description
55826	Basic Kit 4-gas Instrument
55830	Standard Kit 4-gas Instrument (includes datalogging option)
55834	Industrial Kit 4-gas Instrument (includes calibration kit)
55838	Deluxe Kit 4-gas Instrument (includes calibration kit, datalogging, and sampling pump)

ALTAIR® 4 Multigas Detector



The ALTAIR 4 Multigas Detector for LEL, CO, H2S, and O2 is a super-durable, competitively-priced, personal multigas detector. The ALTAIR 4 Multigas Detector is the only portable gas detector with an optional MotionAlert™ feature if a user should become disabled due to unforeseen hazards. When enabled, the MotionAlert feature will activate if the instrument does not detect motion for 30 seconds, and is ideal for confined space entry applications. This unique gas detector function is easily turned off by the user if desired.

Features

- MotionAlert feature plus audible, visual, and vibrating alarms
- Most rugged instrument available
- Large buttons for easy operation
- 20-hour battery run time when fully charged
- Tested to IP67
- Galaxy® System compatible
- Global approvals
- Economically priced
- MSA Link™ Software-ready
- QuickCheck™ Test Station available for fast, easy bump testing

Item	Description
A56899	ALTAIR 4 Multigas Detector (LEL, O_2, CO, H_2S)
A57161	ALTAIR 4 Multigas Detector with MotionAlert feature (LEL, O_2, CO, H_2S)
A62433	ALTAIR 4 Multigas Detector (LEL, O_2, CO)
A62435	ALTAIR 4 Multigas Detector with MotionAlert feature (LEL, O_2, CO)
A62437	ALTAIR 4 Multigas Detector (LEL, O_2)
A62438	ALTAIR 4 Multigas Detector with MotionAlert feature (LEL, O_2)

ALTAIR® 5 Multigas Detector



The ALTAIR 5 Multigas Detector is MSA's latest portable instrument for detection of many toxic gases. This innovative unit offers these exclusive portable instrument features:

- Logo Express® Service option for customized instruments
- Standard MotionAlert™ feature to indicate "man-down"
- Great impact durability
- Excellent dust and water ingress protection
- Multilingual at no extra cost
- Standard graphical display
- Optional high-resolution color display
- Diffusion mode or internal pump
- Rechargeable or alkaline battery options



Galaxy® Automated Test System



Extremely Easy to Use

- Standard web browser accessibility for data retrieval and reporting
- Industry-standard memory card available for simple data retention
- System does not require a computer or network interface
- Works without the touch of a single button
- Minimal training needed

Versatile and Expandable

- Up to 10 systems can be interconnected
- Instrument charging option available
- Optional battery pack available for remote use

Durable, Innovative Design

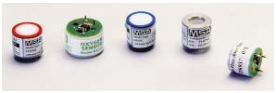
- Wireless- or wired-network interface available
- Inventive system door also functions as dust cover
- Guaranteed to work in the harshest environments
- In-line gas cylinder holster available; keeps the work area clean and orderly

Value-Driven Performance

- All-inclusive, 2-year warranty
- High quality, cost-effective solution
- Very low total cost of ownership

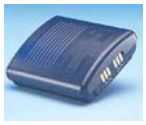


Multigas Instrument Accessories










Solaris and Solaris Alkaline Multigas Detector Accessories

Item	Description
Sensors	
A33977	Replacement CO Sensor
A16471	Replacement H_2S Sensor
A16455	Replacement 0_2 Sensor
A16462	Replacement Combustible Sensor
Sampling Accessories	
A15448	Universal Pump Probe, UL Approval
A39102	Universal Pump Probe, MSHA Approval
A38793	Universal Pump Probe, CSA Approval
A60311	Solaris Aspirator Assembly

Sirius Multigas Detector Accessories

Item	Description
Battery Packs	
A61201	Standard Rechargeable Lithium Ion Battery Pack
A27737	Lithium Ion Battery Charger (consists of power supply and charge adapter)
A27670	Replaceable Alkaline Battery Pack
A62445	Replaceable Alkaline Battery Pack less door
A25106	Vehicle Charger (includes charge adapter)
Sampling Accessories	
55372	Sampling Line with Quick-Connect, 10-foot Polyurethane
55373	Sampling Line with Quick-Connect, 25-foot Polyurethane
55374	Sampling Line with Quick-Connect, 10-foot Teflon
55375	Sampling Line with Quick-Connect, 25-foot Teflon
55376	Sampling Line with Quick-Connect, 3-foot Polyurethane Coiled
55377	Probe, 1-foot
55378	Probe, 3-foot
55379	Probe, 8-inch
Replacement Lamps and Sensors	
A21289	10.6 eV Lamp
A62447	9.8 eV Lamp
A21290	4 Sensor Kit (LEL, O_2, CO, H_2S)
A28115	Combustible Sensor (both LEL and CH_4)
A28114	Oxygen
A28113	Carbon Monoxide
A26639	Hydrogen Sulfide
A62449	Long-Term Storage Oxygen Sensor (hermetically sealed for 2-year storage)

Orion and OrionPlus Multigas Detector Accessories

Item	Description
Battery Packs and Chargers	
A18577	Rechargeable NiMH
A18542	NiMH Battery Charger
A18580	Alkaline
A27747	Vehicle Charger
A62442	Battery Pack Jack Cover
Replacement Sensors	
A18524	Combustible
A18526	Oxygen
A18529	Carbon Monoxide
A18531	Hydrogen Sulfide
Sampling Accessories	
A33347	Sample Line, 3-foot Coiled
A18550	Sample Line, 5-foot Coiled
A18553	Sample Line, 10-foot
A18554	Sample Line, 15-foot
A18555	Sample Line, 25-foot
A18558	Probe, 1-foot
A18559	Probe, 3-foot

ALTAIR® 4 Multigas Detector Accessories

Item	Description
Sensors	
A62450	Combustible Sensor
A16455	O_2 Sensor
A62451	CO/H_2S Duo-tox Sensor
A62453	Sensor Replacement Kit (duo-tox, O_2, combustible)
Sampling Accessories	
A62454	Universal Pump Probe (UL)
A38793	Universal Pump Probe (CSA)
A62455	Calibration Assembly (cap, tube, connector)
A62456	JetEye IR Adapter with USB Connector
A62457	MSA Link Software CD-ROM
A62458	Charger Cradle Assembly
A62459	North American Power Supply

SafeSite® Multi-Threat Detection System



SAFEMTX Multi-Threat Detector



SAFECOM Command Center



PC Connection

The SAFESITE Multi-Threat Detection System simultaneously monitors and wirelessly communicates six potential threats: CWAs, VOCs, TICs, gamma radiation, combustible gas and oxygen deficiency. The SAFESITE System combines state-of-the-art detection technology with advanced wireless communication capabilities to provide superior preventative and counter-measure solutions for:

- Homeland Security
- Emergency Response
- Public Events
- Building Protection
- Mass Transportation Centers
- Perimeter Monitoring
- Hazardous Response
- Port Surveillance
- Confined Space Monitoring

SAFESITE System components consist of the SAFEMTX™ Multi-Threat Detector, the SAFECOM™ Command Center and the SAFECONNECT™ Belt-Bridge with Sirius wireless interface. The system can be installed permanently (wired or wireless) for continual monitoring or deployed as a portable system.

The SAFEMTX Multi-Threat Detector utilizes multi-sensing technologies to detect up to six potential threats; helping first responders, law enforcement and government agents reduce the risk of exposure and facilitate consequence management.

The SAFECOM™ Command Center receives mission-critical information from the SAFEMTX™ Detectors and permits this crucial and wide-ranging data to be converted quickly into practical information for rapid decisionmaking through an uncomplicated graphical user interface. The SAFECOM Command Center can manage up to four systems with 16 SAFEMTX Detectors per system, integrating SAFEMTX data, including:

- Gas readings
- Relative CWA threat level
- Radiation dose rate
- Alarm status
- GPS location
- Battery run time
- RF signal strength
- Fault conditions
- SAFEMTX min, max, and average values



Through the SAFECOM Command Center, alarms are identified with both visual and audible alarms. Alarms can then be acknowledged and silenced, detectors can be enabled and disabled, event logs and event log history can be viewed, plus units can be customized to suit the specific deployment scenario.

Wireless Technology
The SAFESITE® System provides up to two miles of wireless communication between any SAFEMTX Detector, SAFECONNECT Belt-Bridge and SAFECOM Command Center. SAFECONFIG™ Software works with the SAFECOM Command Center or SAFECONNECT Belt-Bridge, enabling configuration of any SAFEMTX Detector as a repeater. This added capability maximizes deployment range and ensures maximum signal strength and reliable deployment without the need to move units.

SAFEPAC™ Perimeter Area Command Kit
SAFESITE® SAFEPAC Perimeter Area Command Kit provides a basic kit for quick deployment and monitoring of an event or a location. The kit includes two Pelican cases with an internal battery charger, 4 SAFEMTX™ Multi-Threat Detectors, 1 SAFECOM™ Command Center, all necessary PC interface software, and 4 extra batteries. A laptop PC is also available as an option, or an existing PC can be used.

Threat	Technology	Benefit
Chemical Warfare Agents	Surface acoustic wave (SAW)	Low false positives and false alarms, differentiates nerve and blister agents
Gamma Radiation	Cadmium zinc telluride (CZT)	Sensitive with adjustable threshold and 2 ranges. (0-100 mR/hr, 0.1 mR/hr resolution & 0-1000 mR/hr, 1 mR/hr resolution)
Volatile Organic Compounds	Photo-ionization (PID)	10.6 eV lamp provides ppm readings for broadband toxics and VOC detection
Toxic Industrial Chemicals	Electrochemical	Detects many specific toxic gases such as chlorine, ammonia, hydrogen cyanide and hydrogen chloride
Oxygen Deficiency/enrichment	Electrochemical	Oxygen monitoring for confined space
Combustible Gas	Catalytic bead	Wide range detection for hydrocarbons

Chemical Agent Detector Kit CM256A1



The CM256A1 Chemical Agent Detector Kit is a compact, simple-to-use kit designed to detect blister, nerve and blood agents.

The kit consists of
- A plastic carry case with velcro closure
- A booklet of 3-way test paper sealed in a plastic bag
- Attached instruction cards
- 12 pouches containing the chemical agent detector samplers

The test is carried out by following the simple instructions printed on the sampler packet.
The test consists of
1) Activating the sampler by breaking the integral crushable ampules and releasing test reagents.
2) Exposing the activated test disc to ambient air.
3) Comparing the observed color change to the color chart in the instructions,thereby determining the presence or absence of chemical agents.

Agents Detected	Nerve agents G, V; Blood agents AC, CK; Mustard H, HD; Phosgene oxime CX; Lewisite L
Dimensions	Detector Kit -12.5 cm long × 9.5 cm wide × 1.5 cm thick -17.5 cm wide × 12.5 cm high × 7.5 cm deep
Packaging	12 detectors plus instruction card and 1 3 way Chemical Agent Liquid Detector packaged in plastic kit box. Box packaged in cardboard unit box
Packing	24 boxes per case/18 cases per pallet
NATO Stock	Commercial Equivalent to M256A1

Item	Description
55851	Chemical Agent Detector Kit CM256A1

Chemical Agent Detector Kit C-2



The Chemical Agent Detector Kit C-2 is designed for issue to a small unit. It is easily operated by one person with a minimum of training.

The kit may be used for
- Determining the presence or absence of chemical agents
- Identifying chemical agents
- Collecting vapor samples of unknown chemical agents for laboratory identification
- Identifying when it is safe to unmask for either short (½ hr.) or long (12 hr.) periods
- Testing for the presence of chemical agents after decontamination operations

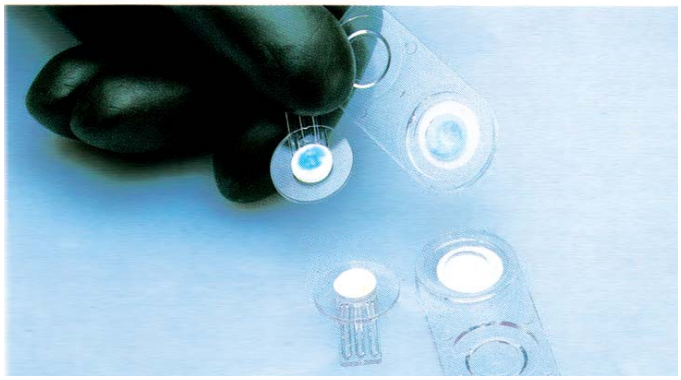
The kit consists of
- A vinyl coated carrying case designed to withstand severe environmental conditions
- Chemical agent liquid detectors
- Chemical agent vapor detectors
- White band detector tubes
- Plain detector tubes
- Three bottles of chemical reagents
- Air sampling pump
- Other miscellaneous items

Agents Detected	Nerve agents GA, GB, GD, VX; Blister agents H, HN, T, CX; Blood agents AC, CK; Choking agents CG
Dimensions	23 cm long × 15 cm deep × 7 cm high
Packaging	1 kit per box
Packing	10 boxes per case / 12 cases per pallet
NATO Stock	NSN 6665-21-870-6740

Item	Description
55855	Chemical Agent Detector Kit C-2

Chemical Agent Vapor Detector





The Chemical Agent Vapor Detector is a simple, inexpensive, expendable device designed for the individual soldier to detect nerve gas vapors.

The detector can be used to quickly determine
- If a chemical attack detected by a "gas alarm" system is dangerous in the immediate vicinity of the individual
- When it is safe for an individual to unmask

The detector consists of
- A plastic detector body containing an enzyme impregnated test paper
- A plastic holder containing a chemically impregnated test paper
- An instruction sheet

The test consists of
1) Moistening the test paper in the detector body and exposing it to the atmosphere.
2) Pressing the detector body into the holder so that the papers contact. The test paper will change color to blue or green in the absence of nerve agent vapor. If nerve agent vapor is present or the test has been incorrectly performed, the color of the test paper will remain unchanged.

Model	NAVD
Agents Detected	Nerve agents GV
Dimensions	5.5 cm long × 25 cm wide × 0.2 cm thick
Packaging	Each detector individually sealed in a moistureproof paper/foil/poly envelope 40 envelopes packaged in a box (Alternate packaging available)
Packing	30 boxes per case / 6 cases per pallet
NATO Stock	NSN 6665 21 846 4563

Item	Description
55856	Chemical Agent Vapor Detector

Chemical Agent Detector Simulator Training Kits



Training Kits are designed for classroom training situations and simulate the presence or absence of nerve, blister or blood agents. Trainees use hinged protective strips that contain needed ampules for simulating blood, blister or nerve agents.

The kits consist of
- A corrugated box containing the simulators
- Instructions manual
- A total of 36 pouches which include the simulators and blank samplers

The test is carried out by following the simple instructions printed on the inside of the box, on the sampler packet and in the instruction manual.

Item	Description
55850	Simulator Kit, M256A1



Chemical Agent Liquid Detectors – 3-Way, C8, CM9







The Chemical Agent Liquid Detector papers were designed to meet the need for a simple, rapid method of detecting and differentiating between the 3 major groups of liquid chemical warfare agents. The detector papers can quickly determine the presence of G, V or H agents in liquid form

The detectors consist of
- Dye impregnated paper sensitive to liquid chemical agents
- Booklets with adhesive backed sheets (3-Way)
- Dispenser rolls with adhesive backing (CM9)
- Booklets of sheets without adhesive (C8)
- Color comparison charts and instructions

The test consists of
1) Detaching a piece of the paper from a booklet or dispenser roll.
2) Exposing the paper to a surface suspected of contamination by a liquid chemical agent or to the agent itself either by wiping the suspected surface with the paper or by attaching the paper to a surface which may be exposed in the future.

Agents Detected	G (nerve), H (blister), V (nerve)
Dimensions	10 cm long × 6.5 cm deep
Packaging	1 booklet in poly bag, 40, 50 booklets per box, 1 dispenser roll in sealed TYVEK® bag
Packing	20 boxes per case / 10-12 cases per pallet and 100 rolls per case
NATO Stock	NSN 6665-21-858-8494, Commercial Equivalent to M8 and M9

Item	Description
55854	3-Way Booklet of 12 Sheets (40 booklets/bx, 20 bx/cs)
55852	C8 Booklet of 25 Sheets (50 booklets/bx, 20 bx/cs)
55853	CM9 Dispenser Box (100 rolls/cs)

HazCat Chemical Identification System



The HazCat Chemical Identification System is a "lab in a box" designed specifically for immediate on-site identification or characterization of virtually any spilled or abandoned material – hazardous or non-hazardous. HazCat tests are easy to follow and may be done by non-chemists. The HazCat manual directs the user through logic charts and step-by-step instructions. There is no math and measurements are not required to be exact. There are enough supplies in the kit to do hundreds of tests. Performing on-site analysis saves time and money.

- Completely portable and self-contained
- Sturdy, easy-to-carry ABS plastic case
- Designed specifically for field use

The HazCat Chemical Identification System is a stand-alone unit with one option available. The Meth Kit Option is specific to illegal clandestine methamphetamine labs and their associated chemicals and wastes.

Item	Description
55873	Basic HazCat Chemical Identification System, KT1209
55874	HazCat Chemical Identification System with Gastec Sampling Pump and Tubes, KT1204
55875	HazCat Chemical Identification System with Gastec tubes, no pump, KT1205
55876	HazCat Chemical Identification System with Dräger sampling pump and tubes, KT1206
55877	HazCat Chemical Identification System with Dräger tubes, no pump, KT1207
55878	HazCat Chemical Identification System Upgrade to 2001 version, KT1002
55879	HazCat Meth Kit Option, KT1001
55880	HazCat Meth amphetamine Chemical/Waste Identification System, KT1003

HazCat® WMD Kit



The HazCat® WMD Kit identifies threats as Radioactive, Biological or Chemical. All HazCat® tests are simple to perform and use a logic system to prove or rule out weapons of mass destruction (WMD). Samples are first screened for radioactive hazards with the HazCat® Radiation Monitor. Non-radioactive materials are screened for biological threats with simple tests on small amounts of sample.
The key to determining biological threats is the Amino Acid Test, which detects protein. Supporting tests screen compounds that are incompatible with biologic agents. If an agent is not ruled out by the screen, specific immunoassay tests are used for bacteria, spores and toxins.

The HazCat® WMD Kit identifies solid or liquid
- Nerve Agents: G-Series, V-Series (VX, etc.), GV-Series (GP, etc.), Binary Components (DC, DF, QL, chlorosarin, chlorosaman), Carbamates.
- Dusty Mustard and Nerve Agents
- Thickened Mustard and Nerve Agents
- Blister Agents: Sulfur-based (HD, T, Q), Arsenic-based (L, PD, MD, ED), Nitrogen-based (HN1, HN2, HN3), Urticants (CX), Key precursors.
- Enhanced Commercial Pesticides (intended as improvised nerve agents).

Item	Description
55881	KT10351 HazCat WMD Kit

Kwik-Draw® Detector Tube Pumps



MSA's Kwik-Draw and Kwik-Draw Deluxe Pumps can be used with an assortment of MSA's detector tubes to spot-test atmospheres for a wide variety of toxic substances. They are designed for one-hand operation and consistent delivery of a sample draw volume of 100 milliliters (ml).

Item	Description
55865	488543 Kwik-Draw Basic Pump, with remote sampling adapter, carrying pouch
55866	488543 Kwik-Draw Basic Pump, with remote sampling adapter, carrying pouch, indicator

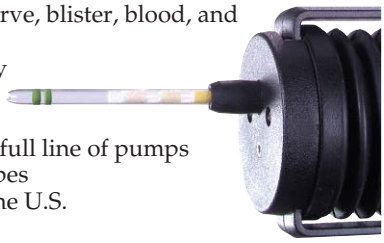
Toximeter™ II Automatic Detector Tube Pump



The Toximeter II Automatic Detector Tube Pump makes the sampling process easier, allowing the user to preset the number of pump strokes (from 1 to 250 pump strokes). Intrinsically safe, the automatic pump works with all MSA detector tubes. It can also be used as a sampling pump.

Item	Description
55867	655585 Toximeter II Automatic Detector Tube Pump

Chemical Warfare Agent Detector Tubes



- Detect a wide range of nerve, blister, blood, and choking agents
- Quick, simple to use; easy to interpret results
- "Go/No Go" style
- Can be used with MSA's full line of pumps
- All sold as boxes of 10 tubes
- Important: Sold only in the U.S.

Item	Description
55868	10007654 Nerve, SARIN, VX, GA, GD, ETC (10/bx)
55869	10007653 Blister, Mustard Gas (10/bx)
55870	10007650 Blister, Lewisite (10/bx)
55871	10007652 Blister, Variety, Including Mustard Gas (10/bx)
55872	10007651 Blood and Choking, CG, DP, AC, CK (10/bx)

CDS Kit



- Warfare Agents
- Blood Agents
- Nerve Agents

Dräger has developed an important new detection system not available from any other manufacturer, specialized test sets that detect up to five different chemical agents simultaneously -- in just five minutes.

The Dräger CDS (Civil Defense Simultest) test sets utilize colorimetric Dräger detector tubes, the same tube chemistry used by NATO for many years in single tube detectors. This CDS kit provides two CDS sets for detection of eight chemical substances, including nerve, blood, lung, nose and throat irritating agents.

Kit Includes
(2) accuro bellows pumps
(2) 1-meter extension hoses with adapters
(2) simultaneous test set openers deluxe tube opener; accuro spare parts and full color laminated instruction cards in a Pelican carry case

Features and Benefits
- Low cost compared to spectroscopic devices
- On-the-spot results in five minutes
- No warm-up time
- No calibration
- No filters to replace
- Simple operation
- Minimum training
- No power supply required for manual pump

Item	Description
55888	CDS Kit, 6400565S

Units must be drop shipped to customer and paperwork regarding confirmation of customer as "qualified" must be completed.

Chemical Warfare Agent Kit

In the event of a chemical warfare attack, a First Responder has to quickly identify what type of agent has been used.

Detector Tubes are one means you can use to assess whether a threatening agent is present. These tubes are inexpensive, reliable, and very easy to use. Fire departments and HazMat teams have relied on them for years for traditional emergency responses, so they are an obvious choice for use in a possible chemical attack response.

MSA's detector tubes for Chemical Warfare Agents can detect a wide range of nerve, blister, blood, and choking agents. These tubes, and other tubes that MSA can provide, are helpful for First Responder teams during response, rescue, and recovery operations.

Multi CWA Tube Sampler

MSA's multi CWA tube sampler can accommodate up to four chemical warfare agent detector tubes simultaneously for easy and quick sampling needed by first responders.



Complete Multi CWA Tube Sampler Kit
- Case

Chemical Warfare Tubes Blister (10/pk)
- Lewisite

Chemical Warfare Tubes Blood and Choking (10/pk)
- Hydrogen Cyanide (AC),
- Cyanogen Chloride (CK),
- Phosgene (CG),
- Diphosgene (DP)

Chemical Warfare Tubes Blister (10/pk)
- Sulfur Mustard Gas (HD)
- Nitrogen Mustard Gas (HN)

Chemical Warfare Tubes Blister (10/pk)
- Sulfur Mustard Gas (HD) only

Chemical Warfare Tubes Nerve (10/pk)
- Sarin (GB),
- Tabun (GA),
- Soman (GD),
- VX 1

Dual Tube Assembly (2)

Escort ELF Pump

ELF Pump Charger

Item	Description
55844	Multi CWA Kit, 10049765
55845	Spare Battery for Pump, 497702

Single CWA Tube Sampler

The MSA single CWA tube sampler holds one CWA tube at a time for quick sampling when only a single gas is being tested.



Complete Single CWA Tube Sampler Kit
- Case

Sampling Line, 50ft
- Sampling Line, 10ft

Chemical Warfare Tubes Blister
- Lewisite 1 pkg. of 10

Chemical Warfare Tubes Blood and Choking
- Hydrogen Cyanide (AC),
- Cyanogen Chloride (CK),
- Phosgene (CG),
- Diphosgene (DP)

Chemical Warfare Tubes Blister (10/pk)
- Sulfur Mustard Gas (HD)
- Nitrogen Mustard Gas (HN)

Chemical Warfare Tubes Blister (10/pk)
- Sulfur Mustard Gas (HD) only

Chemical Warfare Tubes Nerve (10/pk)
- Sarin (GB),
- Tabun (GA),
- Soman (GD),
- VX 1

Kwik-Draw Deluxe Pump with End-Of-Stroke Indicator

Item	Description
55864	Single CWA Kit, 10049765

APACC
Chemical Control and Alarm Detector



When it is fitted with the Alarm box unit, the AP2C becomes the APACC (portable chemical control and alarm apparatus) for chemical agents: G(GA, GB, GD, GF...) VX (A4), HD. The Alarm box unit is fitted to the AP2C in place of the battery tray. However the AP2C can still be used at any time as an alarm apparatus for chemical contamination.

The APACC provides an alarm at a given dose, that is for a given product of agent concentration and elapsed time (C.T.). There is a visible alarm (the red indicator lights up) and an audible alarm (the buzzer sounds).

It is reset by holding the push button on the Alarm box down for 6 seconds. The information can be relayed up to 400 meters via an alarm report module using a RS 485 twisted pair link.

The Alarm box is a module incorporating a red indicator and buzzer. It has a 6 pins connector and a reset button. It is inserted into the AP2C in place of the standard battery compartment.

Characteristics–APACC
- Dimensions: Length 420 mm, Width 86 mm, Height 138 mm
- Weight (including battery module and H2 cartridge): 2,200 kg

Characteristics–Alarm Box
- Dimensions: 155 mm × 100 mm × 60 mm
- Weight: 290gr (without AP2C battery PS42A)

Item	Description
55886	UCAPACC Complete kit with Cylinder and Hard Case, M266E00004
55887	Alarm Box, M452E10000

AP4C
Chemical Warfare Agent Assessment Kit





The AP4C is a portable chemical contamination control device used to detect all nerve, blood, blister agents as well as many TIC's and TIM's. The AP4C is particularly suitable for military use in rough conditions:
- Fast turn on
- Simplicity of use
- Single-handed operation
- Immediate identification and measurement
- Ability to be turned off without precautions

The AP4C is a flame spectrophotometer for gas detection. A continuous stream of air is burned in a combustion chamber (called a burner), which has a constant supply of hydrogen. The resultant spectra are passed through a diffraction grating and then projected on to a strip array. The resultant signals are processed to distinguish individual elements contained in the sample.

- Nerve agents (G,V) will be indicated by the P (Phosphorus) detection channel
- L, ED, MD, PD, SA, DA, DC, DM will be indicated by the As (Arsenic) detection channel
- Blister agents (H, HD, HL, HT) will be indicated by the S (Sulfur) detection channel
- HN, AC will be indicated by the HNO detection channel

Features and Benefits
- Detects all channels simultaneously
- Detects degrade or home made agents, important for terrorist activities
- Detects agents in all forms: vapor, aerosols, droplets, dust and liquid
- Detects liquid agents spread on most surfaces (VX, thickened Soman, HD at low temperatures), essential for post decontamination detection
- Detects agents in water
- Detects ALL nerve, blood, blister agents
- Ultra fast response time: 2 seconds at the high sensitivity
- Ultra fast return-to-zero after detection even in high concentration
- Detects continuously: no need to recalibrate; no need to change filter after positive detection
- Continuous detection and fast response allows the user to operate faster than other detection methods
- No false alarms
- Starts up within 2 minutes; no calibration and built-in test included

Item	Description
A18836	AP4C Set Intrinsically Safe Chemical Detector for CW Agents TICS and TIMS - Complete Kit, M910E00002
A18862	AP4C-V Intrinsically Safe Chemical Detector for CW Agents TICS and TIMS for Reconnaissance Vehicle, M427E00000
A18864	AP4C-V Visual Control for AP4C-V(E)-Provides Detector Power, Visualization and Control Module, M356E20000

THE BIOSENSOR™ 2200R

Biological Agent Detector

The new BIOSENSOR 2200R Biological Agent Detector from MSA is a handheld, portable, on-site instrument for rapid detection, analysis, and identification of biological agents. Unique bioassay technology offers excellent sensitivity and low false positives while offering ease of use during white powder response calls. This highly accurate detection method provides rapid measurement of biohazards such as anthrax, ricin, botulism, SEB, and plague. Exclusive five minute time-to-answer allows first responders to make informed critical decisions more rapidly than any other biological agent detector. The BIOSENSOR 2200R employs dynamic surface generation, a patent pending type of immunoassay detection technology. This technology offers significant advantages over other field-based assay methods by combining the benefits of both the free solution and lateral flow types. The result is more rapid analysis, a user-friendly format, and detector stability within a wide range of climates. Both wet and dry samples may be tested and results are displayed with a simple red (target present) or green (no target present) indication. As tests are nondestructive, samples may be retained as evidence. Single-test, disposable cartridges with on-board reagents have a 12-month shelf life. This instrument is permanently housed in a sturdy, lightweight Pelican case.



Assay Type	Immunoassay
Time to Answer	5 minutes
Operating Range	36 - 104° F (2 - 40° C)
Sensitivity	Anthrax < 10,000 spores Ricin < 1 ng SEB < 1 ng
Features	Wet or dry samples Positive and negative control cartridges Non-destructive test, sample is retained Automatic cartridge identification using RFID Chemistries can be integrated to detect other bio-agents One hour training
Performance Testing	University of Alabama at Birmingham (UAB) New York State Department of Health (NYDOH)
Weight	7 lbs (2.7kg)
Size	11" × 10" × 5" (27 × 25 × 14 cm)
User Interface	LCD screen, 4 button interface On-screen operation instructions Visual and audible alarms
Housing	Fully decon-able, waterproof, dustproof, IP 67 certified
Power	Battery (50+ tests) and AC or vehicle supply
Data Storage	50 test results including: Target type Cartridge serial #
Connectivity	Serial port

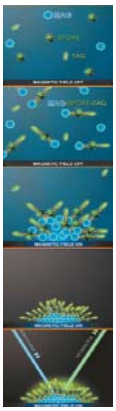
Instrument Features and Benefits

- 5 minute time-to-answer
- Uses positive and negative control cartridges
- Battery-operated with ability to run 50 tests on a single charge
- Fully decontaminable housing; IP67 rated
- Visual and audible alarms provide clear indication of status
- Extremely easy to use with a training time of one hour
- Integrated RFID (radio frequency identification) for automatic cartridge recognition

Targets

- Anthrax/ricin duplex—one test, two agents
- Anthrax
- Ricin
- SEB (staphylococcal enterotoxin B)
- Botulism*
- Plague*
- Smallpox*
- Tularemia*
- Cholera*
- West Nile virus*

*additional agents in development



1. **MIX**
   Sample is mixed with the Sensing Solution.
2. **BIND**
   Sensing materials bind to target during incubation.
3. **MAGNETIZE**
   All bound and unbound magnetic material is pulled to surface.
4. **WASH**
   All remaining sensing and non target material is washed away.
5. **READ**
   Concentrated sample (pellet) is illuminated and emits a signal if target is present.

The Bioassay incorporates highly fluorescent particles in the assay that have superior brightness relative to many commercially available materials. Several Bioassays incorporate proprietary antibodies that show high binding along with superior specificity relative to their commercially available counterparts. This step effectively concentrates the sample for subsequent detection. False positives are virtually eliminated by removing potential interferants from the sample solutions. The exclusive patent pending Dynamic Surface Generation technology effectively binds, concentrates and isolates the sample before detection - resulting in superior sensitivity to other immunoassays.

Item	Description
A36329	MSA BIOSENSOR 2200R Biological Agent Detector Kit, includes carry case, charger, cartridge starter kit (10084758), instruction manual, and quick start guide, 10084834
A36352	MSA BIOSENSOR cartridge starter kit includes 3 Anthrax/Ricin dual kits*, 1 Anthrax, 1 Ricin, 3 positive control, 2 negative control cartridges, and 2 wet sample kits, 10084758
A36353	MSA BIOSENSOR Low volume cartridge plan includes 6 Anthrax/Ricin dual kits*, 2 Anthrax, 2 Ricin, 6 positive control, 2 negative control cartridges, and 2 wet sample kits, 10084753
A36354	MSA BIOSENSOR Medium volume cartridge plan includes 24 Anthrax/Ricin dual kits*, 6 Anthrax, 6 Ricin, 24 positive control, 6 negative control cartridges, and 4 wet sample kits, 10084754
A36355	MSA BIOSENSOR High volume cartridge plan includes 60 Anthrax/Ricin dual kits*, 8 Anthrax, 8 Ricin, 60 positive control, 8 negative control cartridges, and 6 wet sample kits,10084755

MSA

Hazardous Material
Chemical Agent Detector

- Compact, lightweight, portable
- Alphanumeric display with discrete LED alarms
- Dual mode operation: fast or high sensitivity
- Quick warm up
- Internal, rechargeable batteries
- Built-in eight hour data logger
- Rugged Rubber boot for external protection
- RS232 and IrDA I/O port
- Requires no calibration
- Excellent ergonomics - designed for operation in a Level A suit

Weight	0.63kg (22oz) including batteries
Dimensions	5.8cm × 6.2cm × 19.8cm (2.3" × 2.5" × 7.8") handle not included
CW Agents	Nerve and blister - VX, GA, GB, GD, GF, HD, HN3 Blood or choking - Hydrogen Cyanide (AC) or Phosgene (CG)
Alarm Levels: Nerve and blister agents Blood and choking agents	Fast Mode • 0.2 to 1mg/m3 • <20mg/m3 Sensitive Mode • 0.03 to 0.25mg/m3
Response Time	Fast mode - 20 seconds - Sensitive mode - 120 seconds
Warm Up Time	30 seconds at 25°C
Batteries	Sony NP-F550 Li-Ion rechargeable
Mission Life	Fast Mode • 8 hours Sensitive Mode • 12 hours
Audible Alarm	85dbA at 0.1m
Visual Display	4 character LED alphanumeric display plus status
Data Logging	8 hours of data logging giving alarm, level, time and
Data Output	9600 baud infrared data port (or RS232 with adapter cable)
Shelf Life	SAW sensors - 5 years Electrochemical cells - 1.5 yrs.
Operating Temperature	-10°C to +50°C
Operating Humidity	0 to 95%, non-condensing; water resistant
Warranty	1 year labor and materials from ship date
HAZMATCAD™ Plus	Hydride gases (i.e. Arsine, Diborane, Germane, Hydrogen Sulfide, Silane) Halogen gases (i.e. Bromine, Chlorine, Fluorine, Nitrogen Dioxide) Acidic gases (i.e. Sulfur Dioxide) Phosgene (CG) or Hydrogen Cyanide (AC)

HAZMATCAD™
Next Generation of SAW based Chemical Agent Detectors



HAZMATCAD™ (Hazardous Material Chemical Agent Detector) is a state of the art SAW (Surface Acoustic Wave) based detection instrument that detects CW (chemical warfare) agents, in including Blood Agent (Hydrogen Cyanide, AC) or Choking Agent (Phosgene or CG). HAZMATCAD™ provides superior selectivity for nerve and blister agents in complex atmospheres.
HAZMATCAD™ uses advanced signal processing and an innovative system design to have a very low susceptibility to false alarms that are a part of real world environments. Unit can be hand carried, belt clipped or arm mounted.

HAZMATCAD™ PLUS
Advanced SAW Based Chemical Agent Detection and Toxic Industrial Chemical



HAZMATCAD™ Plus offers the additional capability of detection TIC's (Toxic Industrial Chemicals) by the use of electrochemical cells. HAZMATCAD™ Plus has the same analysis performance of HAZMATCAD™, with the addition of Acid Gases, Hydride Gases and Halogen Gases. This allows the operator to gain additional toxic threat information from non-chemical agents often encountered in the Hazmat first response applications.
Custom "handle" for four selected electrochemical cells.

Item	Description
55907	HAZMATCAD™ Unit Detects Nerve and Blister, Accessories - RS232 data cable, software, 8 hour data log, belt clip, rubber boot, two batteries, battery charger, manual, and a Pelican case, 10055094
55942	HAZMATCAD™ Unit Detects Choking Agent, Accessories - RS232 data cable, software, 8 hour data log, belt clip, rubber boot, two batteries, battery charger, manual, and a Pelican case, 10055096
55908	HAZMATCAD™ (Blood or choke agent) Unit Detects Blood Agent, Accessories - RS232 data cable, software, 8 hour data log, belt clip, rubber boot, two batteries, battery charger, manual, and a Pelican case, 10055095
55909	HAZMATCAD™ Plus (TIC's)HAZMATCAD™ Unit with 4 Electrochemical Cells (Acid Gas, Hydride Gas, Halogen Gas, and Blood or Choking Agent), Accessories - RS232 data cable, software, 8 hour data log rubber boot, two batteries, battery charger, manual, and a Pelican case, 10055097
HAZMATCAD™ Options	
55910	Check Source, 10055751
55913	Extended Warranty for Item 55907 (1 additional year), 10056246 (Includes parts, labor and shipping, excludes electrochemical cells)
55944	Extended Warranty for Item 55909 (1 additional year), 10056248 (Includes parts, labor and shipping, excludes electrochemical cells)

What Every Public Safety Officer Should Know About Radiation and Radioactive Materials

This quick-reference guide for public safety personnel provides basic information about and an understanding of radiation, radiation hazards, and initial response. It is not intended to replace an agency's existing policies, procedures, or training. Agency response protocols should be developed and followed for response to suspect weapons of mass destruction incidents. This aid is not intended to serve as a response guide.

Introduction

Radiation is part of our environment. It comes from both natural and manmade sources. Natural sources include cosmic radiation from space, radioactive rocks and soils, and other radioactive materials found in food and water. Humans have been exposed to these natural radiation sources since the dawn of humanity. Man-made sources of radiation include medical diagnosis and treatment, nuclear power industry, scientific research, consumer products, and nuclear weapons testing.

What Is Radiation and What Is Contamination?

Radiation is a form of energy. The atoms of some elements are radioactive and spontaneously release energy (radiation) as they transform from unstable to stable forms. Most elements are stable and do not emit radiation and therefore are not considered radioactive.

Radioactive material located in a place where it is not wanted is known as contamination. For example, radioactive fuel contained in a nuclear reactor is not considered contamination. However, if that same fuel is released from the reactor into the environment during an accident, it is considered contamination.

Different Kinds of Radiation

Remember that radiation is a form of energy released from a radioactive atom. That energy can be released in four different forms: alpha particles, beta particles, gamma rays, and neutrons. Awareness of the different forms of radiation will better prepare you to protect yourself and the public.

- Alpha particles can travel short distances (inches). A sheet of paper or the outer layer of a person's skin easily stops them. Radioactive materials that emit alpha particles are hazardous only when inhaled, ingested, absorbed, or injected.

- Beta particles can travel farther and can pass through a sheet of paper and some clothing, but are stopped by thin metal or glass. Beta particles can damage skin, but like alpha particles the greatest hazard comes when a person inhales, ingests, absorbs, or is injected with materials that emit beta particles.

- Gamma rays are similar to x rays. They travel at the speed of light through air. Concrete, lead, steel, and other dense materials can be used to block (shield) gamma rays. Gamma rays can be an extreme external body hazard.

- Neutrons are extremely small atomic particles. They can travel long distances in air and are released when an atom breaks apart, a process known as fission. Water and concrete can be used to shield neutrons. Neutrons, like gamma rays, can be an extreme external body hazard.

Special instrumentation and trained personnel are needed to accurately identify the form(s) of radiation. Reliable packaging information (if available) may also help to determine the radiation form.

Natural Sources of Radiation

Radiation emitted by radioactive elements is naturally present in soil, water, and air. Radioactive materials are found all the way up the food chain, including in humans. The human body naturally contains many radioactive elements. Building materials, such as granite, contain radioactive materials. Even the air we breathe contains small concentrations of the radioactive gas radon, which seeps from the Earth's crust. Cosmic radiation from outer space also is a source of natural radiation. The atmosphere screens out most cosmic radiation, but some still penetrates to the ground. The dose from cosmic radiation increases with altitude. As a result, people living at higher elevations receive a higher cosmic radiation dose than those living at sea level. People whose occupations require airline travel will experience a higher level of radiation exposure for the same reason.

Man-Made Sources of Radiation

Radioactive materials can be produced in nuclear reactors. X-ray machines and nuclear reactors are examples of man-made radiation sources. Manmade radioactive materials are used in medicine, industry, research, and nuclear weapons.

Medical uses of radiation can be roughly broken into diagnostic and therapeutic. Diagnostic uses include routine x-rays and injection or ingestion of radioactive materials for imaging internal organs. Therapeutic applications include cancer treatments. Industrial uses include well logging, physical property measurements, smoke detectors, and weapon night sights (tritium). Special nuclear materials, such as plutonium and uranium, are used in nuclear weapons.

What Is a Dirty Bomb?

According to the Environmental Protection Agency (EPA), the term "dirty bomb" commonly refers to a device that spreads radioactive material by exploding a conventional (non nuclear) explosive, such as dynamite. Dirty bombs are sometimes called radiological dispersal devices. Typically, the threat of a dirty bomb is from the explosion, not from radioactive materials or radiation. However, the spread of radioactive contamination is likely to create hysteria and terror among the public and contaminate the exposed area. Dirty bombs are not traditional nuclear weapons and cannot cause mass devastation like a nuclear weapon or an improvised nuclear device. They are difficult to accurately describe or characterize because they may be constructed using different types of containers and virtually any industrial or medical radiation source.

Detection of Radioactivity

The most obvious means of determining the presence of radioactive material is by locating a radiation warning symbol on a vehicle, container, or object, or at the entrances and exits of a room or facility. Nuclear radiation cannot be seen, heard, smelled, or tasted. It can be detected, however, using proper instrumentation. Various types of detectors are required to detect specific types of radiation. Some simple radiation detection instruments are available commercially. These types of detectors include personal devices used to detect radiation exposure and are similar to those worn by x-ray or medical personnel; duty-belt-worn detectors, commonly referred to as radiation pagers, which can be used for searching for sources; handheld monitors for determining radiation exposure data; and larger, more sophisticated instrumentation, which can be used to determine the type of radioactive atoms present. The cost of these types of detectors ranges from several hundred to several thousand dollars.

What Actions Do I Take If I Suspect a Radioactive Source or Contamination?

Follow the protocols established by your agency. Remember: Detection and identification of a radioactive source and contamination require special training and instrumentation. The extent of contamination can depend on many factors, including the size of the explosive, if any; the amount and type of radioactive material used; the weather; and the terrain.

Department policies and procedures may differ regarding whom to contact if a radiological event is suspected. Make sure you have ready access to telephone numbers to contact the appropriate resources.

Supervisor: _____

Fire/HazMat: _____

FBI: _____

FEMA: _____

EPA: _____

NRC: _____

Other: _____

What Are the Risks and How Do I Protect the Public and Myself?

The fundamental principle in radiation protection is that all exposures should be kept to a minimum.

Typically, exposure to radioactivity has no immediate symptoms (asymptomatic). We are all continually exposed to natural radiation.

However, heavy exposure to intense sources, although rare, can cause radiation sickness, which can include nausea, vomiting, and diarrhea. Eye damage, increased cancer risk, genetic defects, and even death can also result from higher exposure levels.

Three key factors influence an individual's radiation dose from exposure to a given source: time, distance, and shielding.

- Time. The most direct way to reduce a radiation dose is to reduce the time spent working with or in the vicinity of radiation sources. If the exposure time is cut in half, the dose will be cut in half.

- Distance. When the working distance from a point radiation source is increased by a factor of two, the dose received from that source will be reduced by a factor of four. Moving from 20 feet to 40 feet from the source will decrease your exposure to ¼ of the original exposure.

- Shielding. Shielding is the use of any material to reduce the intensity of the radiation by absorbing or reflecting the radiation.

Again, first and foremost, follow your agency's response protocol. If one is not available, remember: In the case of an explosion, the blast may cause injury and death to those in its immediate proximity. Also, entry without proper equipment, training, and procedures into an area with dispersed radioactive materials may put you at risk.

Individuals or items suspected of being radiologically contaminated should be isolated and secured until they can be surveyed with proper radiation detection instrumentation. Only trained personnel should perform the survey and decontamination of individuals or property. The area also should be secured so that unauthorized personnel are not exposed to radiation and do not disturb the scene.

Remember that dust and other airborne particles and fragments from an exploded dirty bomb may contain radioactive materials. Appropriate respiratory equipment and clothing should be worn and proper procedures followed.

For more information about other resources addressing this topic, contact the National Law Enforcement and Corrections Technology Center system at 800-248-2742, or email asknlectc@nlectc.org. The web address is www.justnet.org.

This brochure was developed in cooperation with the Law Enforcement Technology Support Center at the U.S. Department of Energy's Savannah River Technology Center, which is funded by the National Institute of Justice (Interagency Agreement #2002-LT-R-032) and is a technology partner with the National Law Enforcement and Corrections Technology Center-Southeast.

The National Law Enforcement and Corrections Technology Center is supported by Cooperative Agreement #96-MU-MU-K011 awarded by the U.S. Department of Justice, National Institute of Justice. Points of view or opinions contained within this document are those of the authors and do not represent the official position or policies of the U.S. Department of Justice. The National Institute of Justice is a component of the Office of Justice Programs, which also includes the Bureau of Justice Assistance, Bureau of Justice Statistics, Office of Juvenile Justice and Delinquency Prevention, and Office for Victims of Crime.

Ambient/LLR and Tactical Dosimetry
SOR/T, SOR/R, Dosimeters



An important special feature of the SOR Line is its ability to meet the needs of various applications with one product. Given its multi-detector architecture the measurement range covered is broad, and includes high level gamma and neutron dose rates as well as low level radiations (L.L.R). Another original feature is the hands free reader exchange mode, which can be used with the dosimeter worn under clothing (such as NBC suits), thus eliminating restrictions placed on the wearer while ensuring reliable coverage. The small size and weight make this equipment ideal for use as field equipment. This equipment is qualified in accordance with current military and civil standards. It has even exceeded some of the standards currently in effect in order to account for harsh operational environments (low temperatures, TREE and EMP resistance, electromagnetic compatibility, water immersion).

Main Functions
- Assignable electronic dosimeters
- Hp(10) dose equivalent measurements
- Hands free data exchange transmission, even through clothing
- Redundant architecture with passive measurement components
- Selectable units : cGy; cGy/h ; mSv ; mSv/h : mrem ; mrem/h
- 2 Configurable dose and dose rate alarms
- Typical one year lifetime with standard battery
- User selectable display modes
- Backlight display (option)
- Periodic exhaustive self-testing including the detector
- Historical record of measurements and events (750 steps; 10s; 1 mn; 10 mn; 1 h; 24 h)
- Data storage in EEPROM (storage time > 10 yrs without battery)
- Battery fault pre-alarm (16 h) and alarm
- Neck lanyard or clip
- Real time teledosimetry transmission (up to 1000 m range) for SOR/R

Item	Description
55963	126378 SOR/T Dosimeter
55964	126375 SOR/R Dosimeter

Radiological Kits
Protection Begins with Detection



The first step in providing hazard protection is the immediate detection of any potential Radiological threat. These instruments provide a wide variety of specialized products designed to help you rapidly discover, precisely identify, and accurately analyze a nuclear threat.
- Easy to use • Durable • Fully customized kits available

Radiological Kit Contents

- 2000 external alarm
- RAM R-200 survey meter
- 2000 electronic dosimeter
- (5) DMC 2000S dosimeters
- Detector RG-10: beta and gamma only
- Detector PA/100M: alpha
- Case

Item	Description
55946	RTM-A008 Radiological Kit (as listed above)
55947	RTM-6017 Cable RAM-R 200 Meter to Detector
55948	RTM-8109 Cable RAM-R 200 Meter to PC
55949	RTM-8111 Cable Between Pole and PA/100
55951	RTM-8112 Cable Between Detector and Computer

DRM-1
Data Radiation Monitoring System



Wide range of monitoring utilizing GM or CsI detectors; Multi-Frequency Hopping Spread Spectrum (FHSS) radio for remote surveillance

- DRM-1: Two energy compensated, auto-switching GM tubes, (5 uR/hr to 1000 R/hr)
- DRM-1D: CsI detector for greater sensitivity for Homeland Security monitoring applications
- Optional external flashing light and/or siren alarm
- AC power with NiMH battery backup (8 hrs)
- Rugged, lightweight metal case
- Configuration and calibration software included
- 900 MHz or 2.4 GHz WRM2 Radio (FHSS)
- Compatible with WRM-Plus using External Transmitter

Accuracy	+10% of reading, within the measurement range
Dimensions	4.25" w × 7" l × 2.5"h (108mm × 178mm × 64mm)
Measurement Range	0.05 mr/hr to 1000 R/hr (0.5 mSv/hr to 10 Sv/hr) Automatic switching between detectors at 800 mr/hr
Sensitivity (137Cs)	17 cp/mr/hr (Low Range): 0.3 cps/mr/hr (High Range)
Detector	GM Tube ZP-1301 (or equiv) High Range GM Tube ZP-1201 (or equiv) Low Range Optional GM Tube ZP-1300 non-energy compensated Optional Csl detector
Energy Response (137Cs)	+20% at 70 keV to 2 MeV
Weight	2 lbs. (907 gm)
Humidity Range	10% ti 95% RH (non-condensing)
Battery Back-up	Three (3) 1.2V NiMH 2100mA rechargeable: Battery operating life: up to 12 hours continuous operation
Temperature Range	Operation: 15°0F to 122°F Storage: -5°F to 140°F
Power Source	External power supply and battery backup: External power supply: Input 120-250 VAC, Output 9-15 Vdc with locking connector

Item	Description
55965	RTM-9130 DRM-1
55966	RTM-9131 DRM-1D

LDM 220

USB Dosimeter Reader



The LDM 220 reader operates using software packages installed on computer (PC) and communicates with the dosimeters of the DMC 2000 and SOR family in pass-by data exchange mode.

• Compact • Non Contact Dosimeter Reader • Low Cost

- No directional alignment required
- Manageable digital inputs/outputs
- Indicator lamps for operation and
- DSP based digital process
- Compatible with DMC 2000 and SOR family
- Compatible with software packages: DosiMed, DosiFast, DosiMass

Operational Characteristic

- Associated to the DosiMed or DosiFast software, the LDM 220 reader is used as interface to activate a dosimeter (to switch in counting mode) or to deactivate it (to switch in pause mode).
- Associated to the DosiMass software, it is used as interface to read and write the internal data of the dosimeter.

Mechanical Characteristic

- Length: 2.75".
- Width: 3.14".
- Thickness: 1.25"
- Weight: 4.23 oz

Communication with Dosimeters

- Short range high frequency bidirectional data exchange
  - nominal range: between 7.87in. and 11.81 in.
  - reduced range setting: between 1.96 in. and 7.87 in.

Environmental Characteristic

- Operating temperature: 32°F to 122°F
- Storage temperature: 14°F to 140°F
- Humidity: 90% HR (without condensation)

Electrical Characteristic

- Self powered through USB port
- EMC: complies with and exceeds CE standards

Description

- Two-color electroluminescent diode used as ON/OFF and data exchange indicator lamp
- Two-color electroluminescent diode for READY/BUSY indication
- Two-color electroluminescent diode for ACCESS/NO ACCESS indication
- 2 HE10, 2 × 7- pin male connectors for 4 digital inputs and 4 digital outputs
- Software downloadable and saved in flash

Item	Description
55927	127689 LDM 220 RS 232 Dosimeter Reader

Personal Electronic Dosimeters

The DMC2000S and XB are personal electronic dosimeters which can be used as standalone devices or integrated into a teledosimetry system. They both have audible and visual alarms. Small, light an ergonomic, the units' top mounted display clearly displays either the accumulated dose (configurable to integers or tenths of milliRem) or current dose rate. Over 25,000 units are operational in United States facilities.



DMC 2000 S

Energy Response
X and gamma: 50 keV to 6 MeV

DMC 2000 XB

Energy response: x, gamma rays: 20 keV to 6MeV Beta Emean > 60keV (Emax: 0.22 MeV to 2.3 MeV)

Measurement range: Dose: 0.1 mrem to 1000 rem
Rate: 0.01 mrem/h to 1000 rem/h

- Audible and visual alarms
- Uses a standard calculator battery, with one year (2000 hours) life
- Dimensions (l × w × h): 3.3" × 1.9" × 0.7"
- Weight: < 2.5 oz with battery
- Worn by a detachable clip

Operational dosimetry for personnel working with ionizing radiation, including

- Commercial nuclear stations
- Non-destructive testing
- Medical and research labs
- Civil defense organizations
- Fuel processing plants

- The Histogram enables events to be reconstructed in detail

Radiological supervisors can then analyze the data surrounding an incident.

Item	Description
55961	Personal Electronic Dosimeter 115663
55962	Personal Electronic Dosimeter D20-A001

WRM²

- Compact, rugged system for indoor and outdoor applications
- High Visibility LED/High Audible and Vibration Alarm indications
- Long-life battery and optional AC power
- Improved clip design
- Exceptional range >6000ft line-of-sight
- Offered in 868 MHz, 900 MHz and 2.4 GHz frequencies
- Multiple Base and Repeater functions
- Two-way communication configurable
- Compatible with MGP Instruments Air Monitors and Portable Instruments

The WRM2 represents teledosimetry technology for the new millennium. This compact, robust system provides unparalleled features for wireless personnel and area monitoring, and increases worker awareness of radiological environments through enhanced alarm indications.



Item	Description
55967	WRM2 Base Transceiver WR2-9001
55968	WRM2 Repeater WR2-9002
55969	WRM2 External Transceiver WR2-9003

Portable Mirrors and Inspection Equipment for All Security Applications

For all law enforcement applications. Lightweight and portable made from fiberglass and aluminum for strength without weight. Replaceable mirror lenses eliminate disruption of service and extend operational life. Widely used for military, police and civilian security.

The Centurion 1000 Series

The Centurion Series has a 12 Watt halogen bulb, with a 19° wide beam and is lightweight, designed for counterbalance to prevent fatigue or arm strain. The battery is 2.0 amp, 12 V sealed lead acid, rechargeable. Weight complete: 5 ½ lbs (2.50 kg) with attached hook. Complete with 8" (20 cm) convex mirror. Smart recharging circuitry. Additional flashlight clip optional.



Item	Description
90527	1000 Mirror, Centurion

Hannibal Under-Vehicle Search Mirror



A rugged under vehicle inspection mirror

Length	54" Collapsed to 87" Extended (137 to 221 cm)
Light	20W 19° Wide Beam
Battery	2.0 amp, 12V sealed lead acid, rechargeable with smart circuitry
Weight	Complete 14 lbs (6.35 kg) Complete with 12" (30.48 cm) convex mirror
Battery Chargers	110 or 220 V

Item	Description
90528	Under Vehicle Inspection Mirror

Model 75 Folding Mirror



Weight	8.8 oz.(250 grams)
Dimensions (closed)	3" × 6" × .75" (76.2 × 152.4 × 19.05 mm)
Handle length	20" (508 mm)
Mirror type/housing	Acrylic/Aluminum replaceable mirror
Batteries/Battery life	1 AAA/5 hours
Bulb type/Life	2 LED/10,000 hrs. min.

Folds down into base and may be carried clipped to belt or in optional carrying case, which also has a belt clip.

Item	Description
90529	Folding Mirror, 75

Legion Series



TYPE L-100	
Length	22" Collapsed (55.88 cm); 55" Extended (139.7 cm)
Weight	1 lbs (.45 kg)
Mirror	6" (15.2 cm) Convex acrylic mirror with hook or flashlight clip

Item	Description
90530	Legion Series Mirror, L-100



TYPE L-500	
Length	36" Collapsed (91.44 cm); 70" Extended (177.8 cm)
Weight	1.5 lbs (.68 kg)
Mirror	8" (20 cm) Convex acrylic mirror with hook or flashlight clip

Item	Description
90531	Legion Series Mirror, L-500



TYPE L-600	
Length	36" Collapsed (91.44 cm); 70" Extended (177.8 cm)
Weight	2 lbs (.90 kg)
Mirror	8" (20 cm) Convex acrylic mirror with arm support and flashlight clip

Item	Description
90532	Legion Series Mirror, L-600

Model 50 Mini-Mirror



- Mini Mirror which can be carried on a belt
- Lightweight and bendable

Length	7" Bent(177 cm); 16" Extended (406 cm)
Weight	.5 lb (.227 grams)
Mirror	Complete with 3" convex mirror (7,6 cm); 4" optional (10.16 cm)

Item	Description
90533	Mini-Mirror, 50

Inspection Mirrors



Excellent for Security when needed to look under or around vehicles, machines, equipment, and hard-to-see areas.

Available from lightweight hand-held to complete with caster wheels and light.

- 6 styles from which to choose
- Available in Round Convex or Flat Mirror
- Equipped with adjustable swivel for infinite adjustment
- Has a heavy duty extruded rubber rim to help prevent damaging objects when maneuvering
- Available with tripod ball bearing caster wheels, allowing full range of motion with effortless maneuvering
- Light weight with a 51" handle
- Low 3 ½" ground clearance
- Available with flashlight, batteries, and mounting bracket
- For indoor or outdoor use



Item	Description
Convex Mirrors	
55654	Hand Held Inspection Mirror, Convex, 12", 10 lbs
55656	Hand Held Inspection Mirror with Wheels, Convex, 12", 11 lbs
55658	Hand Held Inspection Mirror with Wheels and Light, Convex, 12", 11 lbs

Item	Description
Flat Mirrors	
55655	Hand Held Inspection Mirror, Flat, 12", 10 lbs
55657	Hand Held Inspection Mirror with Wheels, Flat, 12", 11 lbs
55659	Hand Held Inspection Mirror with Wheels and Light, Flat, 12", 11 lbs

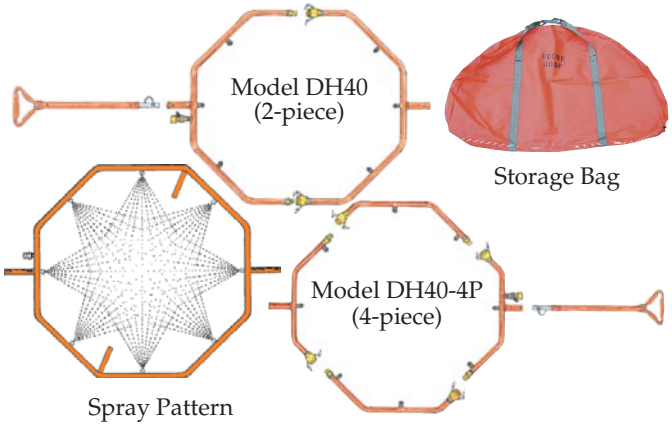
MITI Portable DeCon Spray Hoop

Fast, Convenient, Cost-Efficient Decon System



Concentrates water at the area being decontaminated, minimizing amount of water required for decontamination and disposal.

- Durable, lightweight, corrosion-free aluminum
- Full-hoop or half-hoop configurations
- Easy-to-use cam-lok couplings to join hoop halves
- Custom sizes available upon request
- Doubles as portable emergency shower for factories
- Quick set-up for on-site application
- Uses a standard ¾" hose connection



DeCon Hoop applications include self wash-off, two-person, three-person, 55-gallon barrels, overpacks, patients on a backboard, equipment, bunker gear and overhaul.

Item	Description
90121	45" OD × 39" (114.30 × 99.06 cm) ID with two 43" - 66" extendable handles (2-piece), DH40
90122	45" OD × 39" (114.30 × 99.06 cm) ID with two 32" - 53" extendable handles (4-piece), DH40-4P
Accessories	
90123	Storage Bag Fits DH40/40-H 2-piece Hoop, DHSB4
90124	Storage Bag Fits DH40-4PH 4-piece Hoop, DHSB44

MITI Portable DeCon Waste Pool

Provides Waste Water Retention and Containment

Authorized Distributor





Retention Hose Storage Canister

- Use with DH40 Series hoops
- Cost-effective waste water retention/containment
- Quick setup for on-site use
- Ground pad with attached belts and quick couplers
- Compresses for storage
- Reusable pool
- Inflates without air or water
- Disposable liner

Quick Setup

1. Place Ground Pad on Level Ground.



2. Attach Retention Hose



3. Spread and tuck liner and you're ready for use.



Item	Description
90189	Self-expanding DeCon Pool 62" D × 8" H, (157.78 x 20.32 cm) 85 gal.capacity (DPL-66 liners sold separately), DP-6
90190	6' Pool Liner, 10mil (10pk) 54 lbs., DPL-66

Secondary Inflatable Sidewall DeCon Containment Berms

MITI MANUFACTURING MARKETING / SERVICE
Authorized Distributor



Standard Duty—Secondary Inflatable Sidewall DeCon Containment Berm constructed of 10 oz woven polyethylene base fabric with poly coating.

Item	Description
90093	14' × 14' × 7" depth, DBI-1414 (426.72 × 426.72 × 213.36 cm)
90094	14' × 26' × 7" depth , DBI-1426 (426.72 × 792.48 × 213.36 cm)
90095	16' × 40' × 7" depth, DBI-1640 (487.68 × 1219.20 × 213.36 cm)

Heavy Duty—Secondary Inflatable Sidewall DeCon Containment Berm. Constructed of 32 oz slip resistant, rip stop woven fabric with PVC coating. Providing superior durability, repairability and long service life.

Item	Description
90096	14' × 14' × 7" depth , DBI-HD-1414 (426.72 × 426.72 × 213.36 cm)
90097	14' × 26' × 7" depth, DBI-HD-1426 (426.72 × 792.48 × 213.36 cm)
90098	16' × 40' × 7" depth, DBI-HD-1640 (487.68 × 1219.20 × 213.36 cm)

Hazmat Pool™

ENPAC



Easy to transport, compact size fits in storage areas, trucks or emergency vehicles. When deployed, pool dimensions are 8"h × 74" base × 67" top. High-viz yellow pool features a -65F cold crack. Choose Hazmat Pool or Hazmat Pool with drain. Simply decontaminate pool for reuse or discard according to regulations.

- Polyethylene based pool provides extreme puncture, abrasion and chemical resistance
- When not in use, simply fold and place in the convenient 14" × 21" carrier
- Easier to handle, store, and transport than standard "kiddie-pools"

Item	Description
57875	Hazmat Pool 5901-YE
57876	Hazmat Pool with Drain 5901-YE-D

DeCon Pool Riser Platform



MITI's DPRP Series Heavy Duty DeCon Pool Riser Platforms provide a durable platform which is able to withstand extreme temperatures and cold conditions alike. They are impervious to oils, salts, acids and most chemicals. Unique flow through grid design enables debris and liquids to fall or flow below the platform. Can be quickly deployed and is light weight for easy handling. Ideal for First Response, temporary or permanent deployment.

Item	Description
90161	Two-Piece 48" Diameter, Height 2 ¾" 121.92cm Diameter, Height 6.73cm, 25lbs, DPRP-48
90162	Two-Piece 60" Diameter, Height 2 ¾" 152.40cm Diameter, Height 6.73cm, 25lbs, DPRP-60
90163	DPRP-RF05 Optional Foot (12 required per unit)
90164	DPRP-FR05 Riser Ring, (12 required per unit)

Inflatable Collar DeCon Waste Pool



Sidewall constructed of 22 oz, PVC coated, rip stop material, base of 30 oz rip stop, PVC coated material. Providing superior durability, repairability and long service life. Carry case Included.

Item	Description
90091	5' Diameter, × 13" Depth (152.40 × 33.02) 120 Gal/450 Litre Capacity, 35lbs, DPI-5
90092	8' Diameter, × 13" Depth (243.48 × 33.02) 307 Gal/1152 Litre Capacity, 25lbs, DPI-8

Safe-T-Zone® Heat Traced Emergency Shower



Heating Tape	Self-limiting parallel resistance cable with braided metal shield for use in hazardous (classified Division 2) areas. FM approved for Class I, Division 2, Groups B,C,D; Class II, Division 2, Groups F,G; Class III, Division 2.
Thermostat	Preset hermetically sealed single pole contact switch. Temperature range 60° to 70°F. FM approved for Class I, Division 2, Groups B,C,D; Class II, Division 2, Groups F,G; Class III, Division 2.
Insulation	Injected polyurethane foam and high density, closed cell insulation.
Pilot Light	6 watt red light. Lights when thermostat closes and heating tape is activated.
Overhead Light	70 watt light with green globe used to locate unit and indicate electric power is on.
Freeze-Protection	Units are wrapped with heat trace cable and insulation, and are jacketed in PVC to protect the unit to -50°F
Junction Box	NEMA 7 box for hazardous areas.
Power Supply	120 VAC, 60 cycle, single phase
Power Consumption	140 watts
Shipping Weight	150 lbs.

Item	Description
A30653	SAFE-T-ZONE, SE-6000

Safe-T-Zone® Decontamination Station



The SE-600 Safe-T-Zone series combines our most popular eye and eye/face wash units with the exclusive Speakman impeller action showerhead to provide superior solutions for those exposed to hazardous materials. Universal signage is included.

- Stainless steel, PVC and freeze-protected models are available
- Combination unit featuring SE-580 aerated eyewash
- Cycolac® impeller action deluge shower head with stay open valve
- Modular construction for quick assembly
- Available options include: hand-foot operation, hand held drench hose and self-closing valves

Item	Description
90752	Stainless Shower, SE-697

Lifesaver Emergency Shower



Lifesaver® emergency deluge showers featuring Speakman's exclusive impeller action showerhead are available in a variety of configurations, providing solutions for any applications requiring full body drenching in case of fire or exposure to hazardous materials. Universal signage is included.

- Pull rod or chain and ring activation with stay-open ball valve or self-closing valve
- Showerheads available in Cycolac® resin, stainless steel, or chrome-plated brass
- Horizontal, vertical, free-standing and drop ceiling models available

Item	Description
A17463	Horizontal Shower, SE-227

57 Gal/Min Lifesaver Multiple Spray Shower



Shower Heads	Sixteen,1-½" diameter. Integral volume control assures proper spray action under varying water pressures.
Piping	1" IPS galvanized steel. Unit is painted "safety" green for ease of location in an emergency.
Valve	1-½" NPTF brass stay-open ball valve. Activated by large stainless steel paddle handle.
Shipping Weight	445 lbs.

Item	Description
A35851	Multiple Spray Shower, SE-340

Alconox



The original anionic powder detergent for manual and ultrasonic cleaning. Odorless, high sequestering powder, helps decontaminate radioactive surfaces. pH 9.5

Item	Description
90300	4 lb Box

Dawn Mist Shampoo and Body Bath



Item	Description
57757	Dawn Mist Shampoo and Body Bath
57764	Finger Nail Brush

Protein Body Shampoo



For the complete fresh and clean after-bath feeling. Untouched body shampoo with each squeeze. The liquid hygienic way of cleaning in a self-dispensing tube contains skin conditioners: protein for body and healthy hair, deodorant power to fight odors caused by bacterium and rich emolients that leave natural oils on the skin and hair. Simply twist top of cap until arrows line up and squeeze to dispense

Item	Description
57114	16 oz Tubes (12/cs)

PORTAFLEX® Cupola - Special Portable and Inflatable Decontamination Shelter

HUGHES



Size	4 ' × 2' × 1.5'
Weight	approx. 99 lbs
Assembly Time	less than 2 minutes

Used with low flow-rate nozzles on the hose assembly from the PORTAFLEX® 300 Decontamination Shower, this unit is specifically designed to provide for those occasions where containment of the contaminated water is necessary.

The shelter frame incorporates four legs which are inflated under low pressure (a pressure relief valve is fitted). This structure supports the replaceable inner lining, which has windows on two opposite sides to enable the decontamination process to be observed while openings on the other two sides enable personnel to walk through from the dirty area to the clean area.

The inlet is normally situated on the side, below a window, to enable the water to be fed from the clean area, while the two outlets are positioned to each side of the entrance, to enable the contaminated water to be directed to the dirty area. Fitted with easily replaceable inner lining.

The openings are fitted with drop down splash flaps to eliminate over-spray. Inlet and outlet trunks are located in the heavy duty floor section and these can be made to suit clients individual requirements.

Item	Description
90292	Portaflex® Cupola - Special

"Books open your mind, broaden your mind, and strengthen you as nothing else can"

—William Feather



Pages 91–92

CUPOLA decon 3 RDS Portable and Inflatable Decontamination Shelter



The CUPOLAdecon 3 is a multi personnel Rapid Decontamination Shelter comprising a heavy-duty inflatable frame and removable, disposable inner lining, which incorporates an integral sump fitted with drain outlets in each corner. The inner lining has three separate walk-through sections, each of which can accommodate three-stage decontamination. The first cubicle (Stage 1) is used for de-robing and, if required, initial showering involving induced additive or detergent, the center cubicle (Stage 2) is where the main showering takes place, and the final cubicle (Stage 3) is for re-robing. The first stage cubicles can be fitted with hand-held shower units which can be fed from separate Chemical Inducers to dose the water with detergent/additive at different concentrations and with different additives. The second stage cubicles can either be fitted with high flow rate hand-held shower units or fixed multi-nozzle showers for thorough rinse down ensuring the safe removal of all contaminants and decontamination agents. When the CUPOLAdecon 3 is not in use it is stored in a valise type storage bag along with a hand pump, repair kit, guy lines, mallet and pegs.

Item	Description
90289	CUPOLA decon 3 RDS RDS Rapid Decontamination Shelter (shelter only)
91130	CUPOLA decon 3 RDS RDS Rapid Decontamination Shelter System (includes floor matting and paneling)
90064	Pump for Shelter

Standard Specification	Advantages
Inflatable frame made from Neoprene coated Nylon	Robust
Pressure relief Valve fitted to inflatable frame	Prevents over-pressurization
Removable inner lining made from coated with integral sump	Disposable
Sump made from PVC coated Nylon	Contains contaminants
Sump fitted with 4 outlet drains (one at each corner)	Easy to drain
Lining fitted with removable central partition, flap screens and zipped entrances	Adaptable
Fitted external lay flat hosing incorporating 4 self-sealing valves to fit flexible shower heads or decontamination brushes	Free from contamination
Guy lines with adjusters	Stable in high winds
Supplied with valise, foot bellows, repair kit, pegs and mallet	Complete package
Dimensions: 12 ft × 13 ft × 9 ft	Spacious
Weight: approx. 195 lbs.	Portable
Storage size: 3 ft × 3 ft × 3 ft	Compact
Color Option: Neoprene Frame Black, Inner Lining, Yellow	To suit customer requirements
Optional Camouflage cover available	To suit customer requirements

CUPOLA decon 5 RDS
Rapid Decontamination Shelter





The CUPOLAdecon 5 is a multi-personnel Rapid Decontamination Shelter comprising a heavy-duty inflatable frame and removable, disposable inner lining, which incorporates an integral sump fitted with drain outlets in each corner. The inner lining has five separate walk through sections, each of which can accommodate three-stage decontamination. The first cubicle (Stage 1) is used for de-robing and, if required, initial showering involving induced additive or detergent, the center cubicle (Stage 2) is where the main showering takes place, and the final cubicle (Stage 3) is for re-robing. The first stage cubicles can be fitted with hand-held shower units which can be fed from separate Chemical Inducers to dose the water with detergent/additive at different concentrations and with different additives. The second stage cubicles can either be fitted with high flow rate hand-held shower units or fixed multinozzle showers for thorough rinse down ensuring the safe removal of all contaminants and decontamination agents. When the CUPOLAdecon 5 is not in use it is stored in a valise-type storage bag along with a hand pump, repair kit, guy lines, mallet and pegs.

Item	Description
90052	CUPOLA decon 5 RDS Rapid Decontamination Shelter (shelter only)
91131	CUPOLA decon 5 RDS Rapid Decontamination Shelter System (includes floor matting and paneling)
90064	Pump for Shelter

Standard Specification	Advantages
Inflatable frame made from Neoprene coated Nylon	Robust
Pressure relief valve fitted to inflatable frame	Prevents over-pressurization
Removable inner lining made from coated Nylon with integral sump	Disposable
Sump made from heavy duty PVC coated Nylon	Contains contaminants
Sump fitted with outlet drains (one in each corner)	Easy to drain
Lining fitted with removable central partition, flap screens and zipped entrances	Adaptable
Fitted external lay-flat hosing incorporating 5 self-sealing valves to fit flexible shower heads or decontamination brushes	Interchangeable
Guy lines with adjusters	Stable in high winds
Supplied with valise, foot bellows, repair kit, pegs and mallet	Complete package
Dimensions: 18 ft × 13 ft × 9.5 ft	Spacious
Weight: approx. 325 lbs.	Portable
Storage size: approx. 5 ft × 2.5 ft × 1.5 ft	Compact
Optional Floor Panels: See page 50 for elevation grids	To elevate user
Color: Neoprene Frame - black, Inner Lining - yellow	To suit customer requirements
Camouflage cover available	To suit customer requirements

Collapsible Patient Roller System



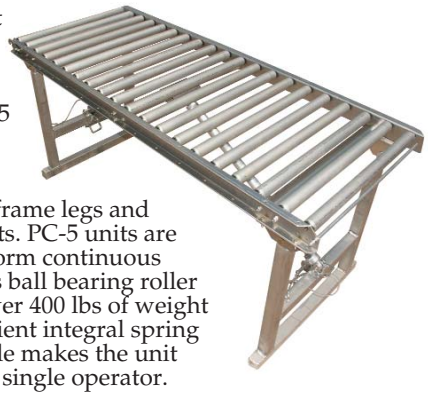
The Reeves Collapsible Roller System is a rapidly deployable, height adjustable, collapsible system that allows non-ambulatory patients to roll easily through the decontamination process on any standard wooden or plastic backboard.

Features Include

- Collapses to a fraction of its deployed length
- Weight Capacity is 300 pounds per linear foot
- Eight to 24-foot long models available
- Safer than placing backboards and litters on saw horses
- Rollers can be linked together to form a longer system
- Accommodates all standard backboards
- Height adjustable from 32 inches to 44 inches
- Articulating frame – flexible from side-to-side
- Constructed of corrosion-resistant aluminum
- Black PVC coating on every roller to prevent slipping
- Legs spaced at four (4) feet when fully expanded
- Heavy duty 5" × 1.5" casters with swivel lock pedal brakes allow for easy movement
- Patient stops at both ends for safety

Item	Description
91125	8' Collapsible Patient Roller System
91105	12' Collapsible Patient Roller System
91126	16' Collapsible Patient Roller System
91114	20' Collapsible Patient Roller System
91127	24' Collapsible Patient Roller System

PC-5 Portable Patient Conveyor



PC-5 is ACSI's newest portable quick deployment non-ambulatory modular conveyor system. PC-5 can be assembled in under a minute by simply spreading its two heavy-duty "H" frame legs and locking the angle struts. PC-5 units are easily interlinked to form continuous conveyor lines. PC-5's ball bearing roller assembly can carry over 400 lbs of weight per section. A convenient integral spring loaded carrying handle makes the unit easy to transport by a single operator.

Item	Description
90272	5' Conveyor

Best/Flex Ultra



Self Tracking	Cartons follow the twists and turns of the conveyor path without using engineered curves.
Adjustable Height	Simply turn the locking knob to raise or lower the conveyor bed height.
Square Tubing Legs	Only BEST offers heavy-duty square tubing legs for longer service life.
Side Plates	Strong 12 gauge formed steel sidebars feature attractive zinc plating to resist corrosion.
Steel Axles	Sturdy ½" zinc plated steel axles provide support across the conveyor width.
Casters with Brakes	5" swivel casters roll easily. Side lock brake locks the wheel for greater stability while the conveyor is in use.

Item	Description
57599	Best/Flex 16' Ultra Conveyor with Steel Wheels
57696	Best/Flex 16' Ultra Conveyor with Nylon Wheels
57697	Best/Flex 20' Ultra Conveyor with Steel Wheels

Rigid Roller System



These 1 ⅜" diameter gravity roller conveyors are extremely popular and are a standard in the industry. Ideal for the movement of patients. They are easily portable and can be used as a temporary or a permanent conveyor line.

Item	Description
90043	Rigid Roller System

Electric Tent Inflator



Item	Description
54069	Electric Tent Inflator

EMS Scissors



Item	Description
40394	EMS Scissors for cutting away gloves and boots

50' Fire Hose



Item	Description
55857	50' Fire Hose with 1.5" Thread Connector

24" Bungee Cord



Item	Description
54381	24" Bungee Cord

Tent Inflator



Item	Description
55330	Tent Inflator (does not include bottle)

8 Meter Outlet Hose



Item	Description
91068	8 Meter Outlet Hose for Submersible Pump

Submersible Pump



Item	Description
90064	Submersible Pump

Floor Matting



Item	Description
91120	Floor Matting 2RDS
91121	Floor Matting Dirty 3RDS
91122	Floor Matting Clean 3RDS

Submersible Pump



- Insulation on all conductors of the power cable are protected by a water block system to prevent wicking of water into the motor.
- Silicon carbide faced double mechanical seals run in an isolated oil-filled cavity, allowing for seal lubrication, cooling and overall motor protection.
- Preliminary v-ring or lip seal (depending on model) shields the mechanical seal from abrasive wear due to suspended debris in pumping fluid.
- Semi-open ductile iron impeller with replaceable/adjustable, stainless steel wearplate.
- Lightweight, compact design for easy transport and positioning of pump.
- Built-in thermal protection prevents motor damage due to impeller blockage, reducing service repairs.
- Heavy-duty power cord with strain relief resists pullout and abrasion reducing costly repairs.

Item	Description
90057	Submersible Pump, PS2 750

Four Stage Pump and Water Filtration System



- Heavy duty (.090) aluminum construction
- Electrical components installed in enclosed box
- Galvanized plumbing
- Built in GFCI
- Vacuum switch
- Motor
- Pleated filters

Item	Description
55455	4-Stage Pump

WP555 Two Stage Pump and Filtration System



- Override pump switch
- Ground fault interrupt
- Two stage filter system 50 and 5 Microns
- Hangs on side of shower or sits on floor
- Pumps 5 gal per minute

Item	Description
55155	2 Stage Pump
55168	Replacement Teel Pump Motor

Heat Wagon Oil Indirect Fired Heaters

Model LVF90



- 90,000 BTU/HR
- 12 gallon tank
- 16 Hour run time
- 120v, 4 amps
- 530 CFM
- Output temp=150°F
- Weight: 90lbs
- Low pressure
- 100% clean heat-no exposed flame
- Indoor/Outdoor usage
- Ductable up to 20'
- Remote thermostat (optional)
- CSA approval (pending)

Item	Description
90217	LVF90 Heat Wagon

Model HVF180



- 180,000 BTU/HR
- 14 gallon tank
- 10 Hour run time
- Preheated fuel filter
- 120v, 7 amps
- 1,475 CFM
- Output temp=160° F
- Ductable
- Weight: 167lbs
- High pressure
- 100% clean heat-no exposed flame
- Indoor/Outdoor usage
- Ductable up to 25'
- Remote thermostat (optional)
- CSA approval (pending)

Item	Description
90218	HVF180 Heat Wagon

Model HVF300



- 290,000 BTU/HR
- 26 gallon tank
- Preheated fuel filter
- 120v, 12 amp
- 2,650 CFM
- 13 hour run time at 0° F
- Output temp=160° F
- Ductable
- Weight: 267lbs
- High pressure
- 100% clean heat-no exposed flame
- Indoor/Outdoor usage
- Ductable up to 50'
- Remote thermostat (optional)
- CSA approval (pending)

Item	Description
90219	HVF300 Heat Wagon

PORTAheater 100 Multi-Fuel Water Heater



PORTAheater 100 is a portable high flow rate multi-fuel water heater capable of delivering warm water to all shower heads on a CUPOLAdecon decontamination unit.

Water Flow	
Max. Pressure	87 psi
Min. Pressure	29 psi
Normal Water Pressure	72.5 psi
Flow Rate	75 litres/minute
Mixing Valves	2 Thermostatic with over temperature protection
Temperature	Preset to 30°C (Adjustable from 20°C to 35°C)
Inlet/Outlet	25mm(1")/19mm(¾") - Geka quick couplings
Cold Inlet	Fitted with pressure reducing valve and combined filter
Flow Control	Flow switch to prevent the boiler running out of water
Electrics	
Nominal Voltage	110v - Single phase (240V available)
Nominal Frequency	50 Hz (60Hz available)
Termination	IP65 junction boxes
Fuel	
Fuel Type	Multi-fuel (28s Kerosene or Diesel)
Fuel Hose	Retractable with quick release fitting
Tank Capacity	.5 × 6 gal
Fuel Boiler	
Burner Type	Continuous ignition capable of 200,000 BTU/h (BTU)
Motor	110V/ac 130 watts (240V/ac available)
Fuel Consumption	1.18 gal/hour
Running Time	10 Hours
Materials	
Frame	1.57" stainless steel
Panels	Zinc plated heavy duty
Handling	2 Wheels and 4 fold down stainless steel handles
Monitoring	2 Temperature gauges, 1 pressure gauge
Dimensions	
Length	30.5 in
Width	26.37 in
Height	27.75 in
Weight	254 lbs

Item	Description
90297	PORTAheater 100 Multi-Fuel Water Heater

165,000 BTU Water Heater with Decon Solution Injection



The Reeves multi-fuel 165,000 BTU, self-heating water and mobile injection system is portable, easy to maneuver and built for field use. The unit is the ideal way to supply multiple decontamination showers or multiple hygiene showers and sinks with heated water, thus increasing the safety and comfort of both patients and personnel. Its numerous features include:

- 165,000 BTU, self-heating water system
- Multi-Fuel (diesel, kerosene, home heating oil, and JP4)
- 4-gallon on-board fuel tank
- Built-in Anti-Scald Protection device factory pre-set at 110ºF
- Operator's panel with color-coded temperature and pressure gauges
- Heater ignited by solid state electrical system (NO FLAME) that ignites upon water flow
- Burner motor is a 1/8 hp, 120 V, 60hz, 1 ph and runs at 3450 rpm
- Mounted on four (4) hardened tires with hand brake for safety
- 1 ½" Female NST inlet with swivel and tethered compressed air adapter for winterization purposes
- Two (2) discharge outlets with male Cam-Lock fittings and tethered caps (1-decontamination solution/1-fresh rinse)
- Discharge outlets and supply hoses can be factory modified in order to supply heated water to non-Reeves shower systems
- Flow rate of up to 18 gallons-per-minute
- Thermostatically-controlled
- Instructional panel for ease of operation
- Inline GFCI protection
- Fuel filter with water separator
- Man portable and easy to maneuver
- Modular design - ruggedized for field use
- Unit will safely accept incoming water pressure of up to 125 psi
- System can be adapted for use with multiple water sources that provide adequate water pressure and flow (adapters not included)
- Includes two (2) 35-foot, ½" supply hoses with Cam-Lock fittings that provide heated water and solution to Reeves shower plumbing

Injection System

- Unit includes a non-electric, volumetric proportional injection system
- Injection rate adjustable on board -- even while water is flowing
- Injection system designed to operate upon water flow
- Chemically resistant to Sodium Hypo-Chloride
- Built-in mixing chamber
- Easy to use black manual bypass (ON/OFF) lever
- In-line 100 micron filtration system
- Automatic air relief valve
- Flow range: 4.2 to 600 gallons per hour
- Injection rate: 1% (1:100) to 10% (1:10)
- Injector operating pressure: 10-85 psi
- Heavy-duty siphon hose with weight and filter at end

Item	Description
91104	165,000 BTU Diesel Water Heater with Solution Injection System (18 GPM), RDHW0002
90055	165,000 BTU Diesel Water Heater (18 GPM), RDHW0001
91119	35 Fuel Switch Kit, RDPK0135

425,000 BTU Water Heater



The Reeves multi-fuel 425,000 BTU, self-heating water system is portable, easy to maneuver and built for field use. The unit is the ideal way to supply multiple decontamination showers or multiple hygiene showers and sinks with heated water, thus increasing the safety and comfort of both patients and personnel. Its numerous features include:

- 425,000 BTU, self-heating water system
- Multi-Fuel (diesel, kerosene, home heating oil, and JP4)
- Flow rate of up to 28 gallons-per-minute
- 10-gallon on-board fuel tank with drain plug
- 110V outlet onboard for convenience
- Instructional panel for ease of operation
- Built-in Anti-Scald Protection device factory pre-set at 110ºF
- Thermostatically-controlled
- Operator's panel with color-coded temperature and pressure gauges
- Heater ignited by solid state electrical system (NO FLAME) that ignites upon water flow
- Burner motor is a ⅓ hp, 120 V, 60 Hz, 1 ph and runs at 3450 rpm
- Inline GFCI protection
- Fuel filter with water separator
- Modular design -- ruggedized for field use
- Man portable and easy to maneuver
- Mounted on four (4) hardened tires with hand brake for safety
- 1 ½" female NST inlet with swivel and tethered compressed air adapter for winterization purposes
- Unit will safely accept incoming water pressure of up to 125 psi
- System can be adapted for use with multiple water sources that provide adequate water pressure and flow (adapters not included)
- Four (4) discharge outlets with male Cam-Lock fittings and tethered caps
- Includes two (2) 35-foot, ½" supply hoses with Cam-Lock fittings that provide heated water and solution to Reeves shower plumbing
- Discharge outlets and supply hoses can be factory modified in order to supply heated water to non-Reeves shower systems

Options

- Mil Spec Jerry Can with fuel supply/return cap
- Decon Solution Injector

Features

- 4 wheel design to provide greater stability on rough terrain
- Undercarriage storage compartment
- New frame design with bumpers to protect fuel tank and motor

Item	Description
91117	425,000 BTU Tactical Diesel Heating Unit with Solution Injection System (28 GPM), RDHW0004
90056	425,000 BTU Tactical Diesel Heating Unit without Solution Injection System (28 GPM), RDHW0003

CBRNE Logistical Support Equipment - Intrinsically Safe Non-Sparking Tool Kit



Non-Sparking tools are part of every Confined Space Entry Checklist Model HS-CBRNE-6201CBRNE Logistical Support Non-Sparking Tool Kit Contains:

- High impact, protective case comes with quarter turn military latches and padlock loops
- Case meets MIL-STD 4150H for stacking and drop test
- Case is resistant to chemical attack

Government Regulations Require the Use of Safety Tools
• OSHA • NFPA • MSHA • DOE

First Responder units and Emergency Management Agencies are authorized to apply for 100% State Homeland Security Grant funding to purchase these kits in an effort to increase local preparedness.
Intrinsically Safe Non-Sparking Tool Kits are specifically cited as approved equipment under Category 9, Logistical Support Equipment section of the Approved Equipment List. Recommended purchasing level is 1 kit per fire station. All tools are covered by a lifetime warranty.
Emergency Management Agencies – Non-sparking tool kits are dual use and bring your first responders into compliance with OSHA, NFPA, DOE and MSHA rules and recommendations. From terrorist response scenarios to derailed tank cars and highway fuel truck accidents, non-sparking tools add to the preparedness of your community.
Emergency Response Personnel Need the Proper Equipment – OSHA regulations require that anyone dealing with situations involving combustible liquids, explosive vapors or confined space entry be equipped with non-sparking tools to insure protection of life and property. Having the proper equipment on hand when potentially dangerous situations arise is the responsibility of each public safety jurisdiction. The right tools used by trained professionals save lives and protect the assets of our communities.
Lifetime Warranty – SafetyTools LLC products are covered by a lifetime warranty. Should any SafetyTools LLC tool break or fail to perform in normal use, it will be replaced or repaired at no charge. This warranty does not cover defects due to abuse or misuse or normal service wear.

Wrecking Bar	BAF-001
Crow Bar	BAB-004
Cold Hand Chisel	CHH-003
Cold Hand Chisel	CHH-007
Knife, Putty	KNA-003
Knife, Putty	KNA-005
Knife, Putty	KND-003
Knife, Common	KNC-001
Pliers, Combination	PLA-001
Pliers, Combination	PLA-003
Pliers, Linesman's Side Cutting	PLB-005
Pliers, Groove Joint	PLG-003
Pliers, Long Nose Side Cutting	PLJ-001
Scraper, Deck	SCC-005
Screwdriver, Standard	SWB-009
Screwdriver, Standard	SWB-013
Screwdriver, Standard	SWB-015
Screwdriver, Standard	SWB-021
Screwdriver, Phillips	SWC-003
Screwdriver, Phillips	SWC-005
Screwdriver, Phillips	SWC-009
Screwdriver, Phillips	SWC-011
Wrench, Double Head Multi Bung	WBB-501
Hammer, Claw	HAB-005
Hammer, Engineers' Double Face	HAH-003
Hammer, Engineers' Double Face	HAH-005
Wrench, Pipe	WPW-001
Wrench, Pipe	WPW-007
Wrench, Adjustable	WAA-005
Wrench, Adjustable	WAA-007
Wrench, Adjustable	WAA-009
9 Piece Combination Wrench Set (SAE)	WCO-499
9 Piece Combination Wrench Set (Metric)	WCO-999
12 Piece ½" Drive Socket Set with Ratchet and Extension bar	STC-950
Wedge (4 ea)	WED-016
Wedge (4 ea)	WED-014
High Impact Cart Case with Telescoping Handle	CSE-003

Responding to situations involving the following chemicals,OSHA regulations specifically cite the use of non-sparking tools.

Acrylonitrile
Benzene
Nonane
Dichloroethylene
Chloronitropropane
Dioxane
Dinitrobenzene
Dimethylaniline
Dimethylphthalate
Dimethylamine
Diisopropylamine
Diethylamine
Dichlorvos
Dichloroethylether
Dibutyulphthalate
Diborane
Crotonaldehyde
Cyanamide
Coal Dust
Chlorodiphenyl
Cloroacetaldehyde
Chloroacetaldehde
Chlorine Dioxide
Aluminum
4-methoxyphenol
Dipropyene Glycol Methyl Ether
Ethyl Acetate
Ethyl Acrylate
Ethyl Amylketone
Ethyl Benzene
Ethyl Bromide
Ethyl Butylketone
Ethyl Chloride
Ethyl Ether
Ethyl Silicate
Ethylamine
Ethylenediamine
Flouotrichloromethane
Furfural
Glycidol
Haptachlor
Heptane
Hydrogen Cyanide
Isobutyl Alcohol
Isopropyl Acetate
Isopropylamine
N-ethylmorpholine
N-hexane
Phenol
Trimethylamine
VM and Naphtha
Zinc Stearate
1,2-Dichloroethylene
Ethylene Oxide

Item	Description
90605	Intrinsically Safe Non-Sparking Tool Kit

The Rapid Deployable Rigid Shelter



The only rigid shelter that requires NO LOCKING DEVICES to keep the shelter erect.

These single exterior cover, rapidly-deployable shelters may be used alone or to compliment your Reeves Decontamination System as patient modesty, triage and rehabilitation shelters. Deployed or taken down by only 2-4 personnel within a matter of minutes without the need for special tools or dealing with loose parts, the shelter design is based on patented Deployable Rapid Assembly Shelter (DRASH) military shelter frame technology. DRASH is a free-standing, self-supporting structure that requires no power or air to erect. Additionally, there are NO obstructions such as CENTER POLES or LOCKING DEVICES needed to keep the shelter erect. The frame of the shelter is manufactured from Titanite®, a rugged and durable aerospace material, with a flex strength 270 percent greater than that of aluminum, and has 100 percent memory up to it's ultimate breaking point. It's state-of-the-art, rugged design gives the DRASH shelter the ability to withstand winds, temperature and the elements, and allows it to remain functional even with up to 60% of the frame damaged or broken. Each shelter comes standard with a transport-style duffel bag, repair kit, push poles, wind lines and a steel pin stake set.

- Designed to be deployed by 1-4 personnel (depending upon size) in under 2 minutes
- Shelter packs down to less than 2% of the deployed size
- Shelter comes standard with transport-style duffel bag, repair kit, push poles, wind lines and a steel pin stake set
- Shelter passed field testing conducted by the US Army at Aberdeen Proving Grounds for rain, snow, and blackout, in accordance with Mil-Std-1472D and TOP 10-2-175
- Shelter is fully operational in ambient temperatures ranging from -25° F to +120°F
- Many different sizes and configurations are available
- All parts and components of our rigid shelter have been soaked in a 50% chlorine solution for 14 hours with no reaction to the chemical
- All of our shelters, regardless of size, can be connected to form large-scale decontamination complexes
- All shelters are custom made with an articulating framework
- Repairable while shelter is erect and in operation, NO special tools are required. Standard Phillips head screwdriver and needle nose pliers, repair kit with tools included with each shelter
- Shelter does not have to be returned to factory for replacement of struts
- Easily relocated after set-up while still in the upright position
- Specially engineered and designed for decontamination, with NO site preparation, tools, special devices or locking devices required for set-up
- No internal obstructions or center poles
- Articulating shelter frame is manufactured of TITANITE, an advanced aerospace material with superior structural properties. TITINITE has a flex strength 250% greater than the flex strength of aluminum. TITANITE has 100% memory up to its ultimate break strength
- Constant tension system is NOT required in order to ensure erection
- Interior or exterior cover design, or both.
- Shelter, with proper staking and wind lines deployed, can withstand winds of 50 mph with gusts up to 65 mph
- All materials, including outer shell and articulating frame meet MIL spec requirements
- Shelter is operable in all weather extremes from -25 degrees to + 120 degrees
- Shelter capable of standing and functioning with up to 60% of support frame damaged or missing
- Shelter includes transport bag with instructions sewn onto the front of the bag, stake kit, repair kit and interior hand rails

Item	Description
90053	11' 6" w × 15'l DRASH Modesty, Triage and Rehab Shelter
90791	11' 6"w × 20' l DRASH Modesty, Triage and Rehab Shelter

DRASH 2-Lane Tactical Hospital Decontamination System



The Reeves durable, fully-operational DRASH 2-Lane Tactical Hospital NBC Decontamination System is a rapidly deployable system crafted to effectively decontaminate both male and female ambulatory and non-ambulatory patients in the event of a mass casualty incident. Perfect for deploying in any setting with only 2-4 personnel and built to withstand winds, temperature and the elements, this System includes an open interior for rapid decontamination, curtains for patient modesty, a collapsible-wall berm for complete run-off containment, and 2.5 gallon-per-minute showerheads and spray wands – all deployable in less than six minutes!

System Features

- Tactical, rapidly deployable system for effective NBC decontamination of male and female ambulatory and/or non-ambulatory patients
- No center poles or locking devices are needed to keep the shelter erect
- Shelter frame is manufactured from Titanite, an aerospace material with a flex strength 270% greater than aluminum
- Shelter will remain functional with up to 60% of the frame damaged or broken
- Durable, pre-attached cover is fire retardant, mildew resistant, water repellent and has high abrasion and UV resistance
- Lane division curtain provides modesty between sexes
- Privacy cross curtains allow for modesty and splash protection within each ambulatory lane by creating separate wash and rinse chambers
- 5-foot lanes provide ideal working space for responders and patients
- Shelter sits inside of a collapsible-wall berm for complete run-off containment
- 2.5 gallon-per-minute showerheads and spray wands supply the water flow necessary for thorough patient decontamination

System Components

- 10'W × 12'L Single Exterior Cover DRASH Shelter (includes push poles, stake set, repair kit and transport bag)
- 2-Line Integrated Plumbing Package - 8 Showerheads and 4 Spray Wands
- 2-Lane Curtain Set
- Privacy Cross Curtains - Create Wash/Rinse Chambers (2)
- 13'w × 14'l × 8"h Collapsible-Wall Primary Containment Berm
- 2'w × 8'l × 3.5"h Patient Elevation Grids (5)
- 2'w × 5 ½'l × 3½"h Patient Elevation Grids (5)
- 30GPM Submersible Water Pump with 25' Discharge Hose
- 35' × ½" Supply Hoses with Cam-Lock Fittings (2)
- Water Supply Adapter Kit

Item	Description
A35853	DRASH 2-Lane Tactical Hospital NBC Decontamination System

DRASH 2/3-Lane Tactical Hospital Decontamination System



The Reeves durable, fully-operational DRASH 2/3-Lane Tactical Hospital NBC Decontamination System is a rapidly deployable system crafted to effectively decontaminate both male and female ambulatory and non-ambulatory patients in the event of a mass casualty incident. Perfect for deploying in any setting with only 2-4 personnel and built to withstand winds, temperature and the elements, this System includes an open interior for rapid decontamination, curtains for patient modesty, a collapsible-wall berm for complete run-off containment, and 2.5 gallon-per-minute showerheads and spray wands – all deployable in less than six minutes!

System Features

- Rapidly deployable system for effective NBC decontamination of male and female ambulatory and non-ambulatory patients
- No center poles or locking devices are needed to keep the shelter erect
- Shelter frame is manufactured from Titanite, an aerospace material with a flex strength 270% greater than aluminum.
- Shelter will remain functional with up to 60% of the frame damaged or broken
- Durable, pre-attached cover is fire retardant, mildew resistant, water repellent and has high abrasion and UV resistance
- Ideal as an offset two-lane system with one ambulatory lane and one wider non-ambulatory lane
- Easily converted to a three-lane system with the addition of a second lane division curtain
- Lane division curtains provide modesty between sexes
- Privacy cross-curtains allow for modesty and splash protection within each ambulatory lane by creating separate wash and rinse chambers
- Shelter sits inside of collapsible-wall berm for complete run-off containment
- 2.5 gallon-per-minute showerheads and spray wands supply the water flow necessary for thorough patient decontamination

System Components

- 11' 6"w × 10'l Single Exterior Cover DRASH Shelter (incudes push poles, stake set, repair kit and transport bag)
- 2-Line Integrated Plumbing Package - 8 Showerheads and 4 Spray Wands
- 3-Lane Curtain Set
- Privacy Cross Curtains - Create Wash/Rinse Chambers (2)
- 14'w × 12'l × 8"h Collapsible-Wall Primary Containment Berm
- 3'w× 5' 6"l × 3.5"h Patient Elevation Grids (4)
- 2'w × 5' 6"l × 3.5"h Patient Elevation Grids (4)
- 30 GPM Submersible Water Pump with 25' Discharge Hose
- 12' Collapsible Patient Roller System
- 35' × ½" Supply Hoses with Cam-Lock Fittings (2)
- Water Supply Adapter Kit

Item	Description
A35854	DRASH 2/3-Lane Tactical Hospital NBC Decontamination System

DRASH 2/3-Lane Hospital Decontamination System



The Reeves durable, fully-operational DRASH 2/3-Lane Hospital NBC Decontamination System is a rapidly deployable system crafted to effectively decontaminate both male and female ambulatory and non-ambulatory patients in the event of a mass casualty incident. Perfect for deploying in any setting with only 2-4 personnel and built to withstand winds, temperature and the elements, this System includes an open interior for rapid decontamination, curtains for patient modesty, a collapsible-wall berm for complete run-off containment, and 2.5 gallon-per-minute showerheads and spray wands – all deployable in less than six minutes!

System Features

- Rapidly deployable system for effective NBC decontamination of male and female ambulatory and non-ambulatory patients
- No center poles or locking devices are needed to keep the shelter erect
- Shelter frame is manufactured from Titanite, an aerospace material with a flex strength 270% greater than aluminum
- Shelter will remain functional with up to 60% of the frame damaged or broken
- Durable, pre-attached cover is fire retardant, mildew resistant, water repellent and has high abrasion and UV resistance
- Ideal as an offset two-lane system with one ambulatory lane and one wider non-ambulatory lane
- Easily converted to a three-lane system with the addition of a second lane division curtain
- Lane division curtains provide modesty between sexes
- Privacy cross curtains allow for modesty and splash protection within each ambulatory lane by creating separate undress, wash, rinse and redress chambers
- Shelter sits inside of collapsible-wall berm for complete run-off containment
- 2.5 gallon-per-minute showerheads and spray wands supply the water flow necessary for thorough patient decontamination

System Components

- 11' 6"w × 20'l Single Exterior Cover DRASH Shelter (includes push poles, stake set, repair kit and transport bag)
- 2-Line Integrated Plumbing Package - 8 Showerheads and 4 Spray Wands
- 3-Lane Curtain Set
- Privacy Cross Curtains - Create Undress/Wash/Rinse/Redress Chambers (6)
- 14'w × 22'l × 8"H Collapsible-Wall Primary Containment Berm
- 3'w × 8'l × 3.5"h Patient Elevation Grids (4)
- 2'w × 8'l × 3.5"h Patient Elevation Grids (4)
- 3'w × 5' 6"l × 3 ½"h Patient Elevation Grids (2)
- 2'w × 5' 6"l × 3 ½"h Patient Elevation Grids (2)
- 30 GPM Submersible Water Pump with 25' Discharge Hose
- 20' Collapsible Patient Roller System
- 35' × ½" Supply Hoses with Cam-Lock Fittings (2)
- Water Supply Adapter Kit

Item	Description
A35855	DRASH 2/3-Lane Hospital NBC Decontamination System

Shelter with Double Door "Airlock"



Shelter only with double door 'airlock'

- Approx. 13'w × 23' l × 9'h
- 300 square feet
- 290 lbs
- Full velcro closure air vents
- Clear vinyl windows
- HVAC Air ducts with tie closures
- Zippered connector flaps on each end to attach one unit to another
- Use with the FSI # F-MAP/F-HAS

Item	Description
A62347	FSI Shelter with Double Door Airlock

Portable Pneumatic Hazmat Decon Shower



First responder portable hazmat decon shower system complete

- Approx. 7'w × 7'l × 8'h
- 50 square feet
- 90 lbs
- 7 spray nozzle heads
- One multi function trigger gun

Item	Description
A19328	FSI First Responder Hazmat Decon Shower System

Kontrol Kube® Topsider™ Environmental Control Module



Specifically designed for dust control and containment when performing daily operations and maintenance, the Kontrol Kube Topsider is the leader in mobile containment. Allowing construction crews unrivaled and unprecedented access to most any area as well as quick and easy mobility, The Topsider is a must have tool for any renovation job.

Reaching heights of up to 10 feet (while on wheel base), The Topsider can accommodate efforts to repair HVAC, lighting and wiring. The Topsider is also an ideal solution for cable pulls. The side access port and the ceiling access together are the most efficient method of running new wires or conduit available.

The Topsider is large enough to accommodate an 8' ladder and tools, and can be moved safely on its solid wheel base from job site to job site. The solid wheel base also allows for better control over the disposal of waste, as well as when and where tools are cleaned, minimizing the risk of contamination of surrounding environments.

Kontrol Kube® ABACUS™ Anteroom/Airlock Configuration



Reaching heights of up to 8 feet (while on wheel base), The Abacus can be used to build containment over a broad area such as wall surfaces, sinks and plumbing areas and vertical HVAC vents. The Abacus can be used as an anteroom to contain larger room sized renovation. The Abacus can also be used for elevator shaft repair or as an "entry vestibule" as sited in APIC's State-of-the-Art Report.

In addition to internal operations and maintenance in a facility, there are often external construction or demolition projects at the facility or the structures around it. These situations often call for containment measures on windows, HVAC systems and doors.

The Kontrol Kube Abacus can also offer a convenient solution to securing a protected environment. The Abacus can be set up in just minutes, and when kept under negative pressure helps satisfy HRSA Critical Benchmark #2-2 requirements.

FIBERLOCK TECHNOLOGIES

MOBILE CONTAINMENT SOLUTIONS KONTROLKUBE

Enclosure	
Shipping Weight	21 pounds
Shipping Dimensions	28.5" × 13.5" × 8"
Adjustable Aluminum Frame	
Shipping Weight	38 pounds
Shipping Dimensions	62" × 31" × 11"
Wheel Base Platform	
Shipping Weight	55 pounds
Shipping Dimensions	62" × 31" × 11"
Assembled Unit	
Length	60"
Width	30"
Maximum Height	125" (with base); 114" (without base)
Enclosure Features	
Enclosure Material	DAF-13 Heavy-Duty Vinyl. In compliance with the Office of the California Fire Marshall, the enclosure material does not exceed the maximum flame out time of 2 seconds and the burn rate of 4 inches.
Equipment Connections	Dual ports allow the attachment of a variety of equipment to generate negative pressure. Scrubber port is adjustable up to 10" using Velcro® contraction strips for use with a variety of negative air machines or air scrubbers. Smaller 3" port is sized to accept HEPA vacuum.

Item	Description
57813	Kontrol Kube® Topsider™ (60" L × 30" W × 120" H), Complete with Enclosure, Frame Set and Wheel Base
57814	Kontrol Kube® Abacus™ (60" L × 30" W × 120" H incl. base), Complete with Enclosure, Frame Set and Wheel Base
Recommended Accessories	
55504	Negative Air Jr. Machine
55503	Air Intake Panel (10" diameter)
54570	Enviromaster® 9 Dry HEPA Vac with Tools
54571	Replacement Paper Bags (10/pk)
54572	Replacement Exhaust HEPA Cassette
54573	Replacement Motor HEPA Filter

Transportable Mass Casualty Decontamination Units
Custom "Wide Body" Units

ACSI's Mass Casualty Decontamination Trailers are designed for large quantities of contaminated people to enter on the dirty side and quickly exit on the clean side, free of contaminates. The shower designs and drain systems are designed to minimize cross contamination. All the contaminated water is contained and ready to be hauled off. The air is filtered through a HEPA and/or an organic filter. ACSI's decon units will arrive on site ready to meet your personnel equipment decontamination needs.

Available Features
- 8'-6" Wide Body
- Exterior decon stations
- Galvanized steel tubing floor joists
- Non-ambulatory decon stations
- .040 thick smooth aluminum siding
- Conveyer systems for non ambulatory decon
- .040 thick seamless aluminum roof
- Explosion proof designs
- Three part, non-slip, poured epoxy floor
- Several sink options, interior and exterior
- Seamless fiberglass reinforced plastic interiors
- Several generator options with sound attenuated enclosures
- Stainless steel interiors
- Full length drain troughs
- Custom shower designs
- Automatic decon solution systems
- Water resistant lighting
- On board restrooms
- Emergency lighting
- Scene lighting
- Awnings
- Eye wash stations
- Stainless steel decon tables
- Stainless steel gray water holding tanks
- Large polyethylene holding tanks
- Bladder bags
- Pull out stairs with handrails
- Heavy duty aluminum ramps
- Custom and standard HVAC designs
- Positive pressure units
- Negative pressure units
- Custom heavy duty doors
- Stainless steel clothes chutes
- Air tight construction
- Aluminum benches
- Steel lockers
- Custom graphics packages
- Instantaneous diesel or LPG water heaters

And much, much more!

Specifications
- Custom In-House Construction
- Designs for Special WMD Applications (Chemical, Nuclear, Biological, Etc.)
- Sizes From 12' to 60'
- Water and Chemical Resistant Interiors
- Custom Electrical and Plumbing Designs
- Negative or Positive Pressure Systems
- Large Chemical Resistant Holding Tanks and Bladder Bags
- Custom Multi Use Applications—Rehab and Command Center

Item	Description
A35856	Transportation Mass Casualty Decon Unit





Custom designed shower packages are available with segregated compartments to eliminate cross contamination and insure privacy. Flow through brushes, shower wands and pressure washers aid in the decon process. Contaminated water flows to either on board gray water tanks or special designed bladder bags that can be left on site for a certified hazmat hauler to pick up.





Stainless steel exterior decon booms for decontamination of non-ambulatory persons.

Due to the nature of the individual configurations available for this product line you will need to call us for ordering information. All accessories and components are available!

PPE Cabinet





- Watchman® IV Lock System
- Full-length shelves allow you to organize longer items
- Top shelf is 14" from top of cabinet. Second shelf measures 10" from bottom of top shelf.
- Bottom shelf is adjustable for easy storage of bulky items
- Ability to add accessory pegboard and door shelves
- Doors on front side only
- Storage Capacity: 47.5 cu. ft.
- Ship Weight 394 lbs

Item	Description
57577	PPE Cabinet

Hospital Crash Cart



Features
3 1" deep drawers
4 2 ½" deep drawers
1 6" deep drawers
1 1" deep shelf

Nearly every hospital has a crash cart in the Emergency Room to hold various types of medical equipment. You would be amazed at the savings by buying the cart empty and filling it with existing hospital supplies.

- Red powder coat finish
- 6" non-marking polyurethane caster set is included
- Includes removable rubber mat to protect the work top and tools from wear and tear
- 37.5" High (with castes)
- 46 ¼" Wide
- 25" Deep
- Load capacity: 1,000 lbs
- Ship weight: 352 lbs

Item	Description
90165	Hospital Crash Cart (empty)

Aramsco Can Build Your Decon Trailer

Or we can provide all the components and you can install them on your own existing trailer

This trailer will fit cascade system, tent, tent heater, water heater, PPE cabinet, fire extinguisher, first aide center, defibrillator, bio-buckets, bath towels, PPE Kits, Decon Kits, etc…



Hospital PPE Cabinet



- Allows full access to both sides and is easy to organize
- Ideal for storing Hospital PPE
- Portable and secure in the ER or on the decon site
- Seven 6" swivel and one 6" rigid caster, allows one person to maneuver the closed cabinet throughout a work site. Each of the front casters have brakes for securing the cabinet when open
- Shelves are 14" deep with a 1" hemmed lip, and welded in place with 12 ⅞" minimum spacing from top of lip to the bottom of shelf
- Vertical storage area features a bracket for hanging extension cords, clothing or tool belts
- Channels on top and bottom provide alignment when closing on uneven surfaces. The cabinet features 16 gauge fully arc welded steel construction
- The bottom panel is 14 gauge steel with extra 14 gauge steel reinforcing plates for caster support
- Storage capacity 60.9 cu. ft.
- Load capacity 1200 lbs evenly distributed
- Ship weight 470 lbs
- Approx. 125" wide when fully open
- 65" High
- 60" Wide
- 15" Deep

Item	Description
90185	Hospital PPE Cabinet

Victim Transport Kit





Out Victim Transport Kit was designed to enclose a contaminated patient, provide PPE protection for two EMS responders and to cover the walls of the ambulance with a self-adhesive chemical protective barrier. Two fluid resistant sheets reduce contamination of the ambulance gurney.

Kit Contents

2pr	Latex Booties - 2X
1ea	Victim transport body bag - polycoated TYVEK® bag with zipper front, attached hood, all seams taped and sealed.
2ea	Polycoated coverall with attached hood and boots, bound seams, size 2XL
2pr	Heavy chemical resistant black over glove
2ea	Goggles, indirect vent, fogless
2ea	Fitted fluid resistant sheets
2ea	60" × 90" wall drapes with 2" double-faced tape on all sides
1rl	2" × 10 yd duct tape for sealing gloves to suit, booties to suit, closing bio-hazard bag
2ea	P100 Disposable Respirator

Kit packaged in a vinyl slider bag with descriptions of contents on front.

Vinyl bag to be shrink wrapped for storage and packed 12 per case

Item	Description
90176	Victim Transport Kit (12 kt/cs)

Biological Personal Protection Kit

1 ea	KleenGuard Ultra 2XL
1 rl	2×10 yd duct tape
1 pr	Boot cover yellow latex 2XL
1 pr	9.5" powder free nitrile gloves XL
1 pr	Black chemical resistant gloves 2XL
1 ea	N95 mask with valve
1 ea	Infectious disease control goggle



Item	Description
90012	Biological Personal Protection Kit

ZstatFlu® Rapid Test for Influenza A or B



We are the distributor of the ZstatFlu® rapid test for Influenza A or B. ZstatFlu® is the first point of care (POC) testing platform for the rapid diagnosis of Influenza A and B, and has proven specificity in diagnosing current strains of Influenza A and B in addition to all the strains on record for the past 30 years. As confirmed by the U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and the U.S. Department of Agriculture, ZstatFlu® will also diagnose emerging Avian strains of influenza such as H5N1 "Bird Flu".

Item	Description
A18793	ZstatFlu RapidTest for Influenza A or B (20 tests/cs)

Law Enforcement Personal Protection Kit



Kit Contents

1	North overboot (1 pr)
2	North B161R butyl gloves (2 pr)
3	JetGuardPLUS® suit (2 ea)
4	Millennium mask with cartridge. (1 mask, 2 cartridge)
5	Chem-Tape (1 rl)
6	Duffel bag (1 ea)

Item	Description
90009	Law Enforcement personal Protection Kit

Universal Precautions Kit

1 ea	Polycoated blue uni-size gown with sleeves, hood, elastic wrist and face enclosure
1 ea	N95 mask
1 pr	Nitrile gloves (size large)
1 pr	Infectious disease control goggle
1 pr	Tri-Tuff® booties
1 pr	Disposable shoe covers with non-skid bottoms



Item	Description
A26362	Universal Precautions Kit

Deluxe Decon Kits Adult and Child

Designed to Address Three Major Liability Issues Involved in Mass Decon Procedures

- Protecting the patient's valuables, including clothing
- Protecting the privacy of the patient
- Providing the patient with a clean entry gown for hospital admittance

Instructions in English and Spanish for all Kits

Pre-Decon Kit

Open Deluxe Decon Kit and remove bag marked "Pre-Decon Kit". This bag contains a white modesty garment, Personal Effects Bag, all weather pen, nail brush, personal bottle of Shampoo and Body Bath, and Contaminated Clothing Bag with snap-on ID bracelet.



Adult



Child

Remove all personal effects (such as wallet, jewelry, eyewear, etc.), and place them in the Personal Effects Bag. The Bar Code on the bag will match the Bar Code on the Identity Bracelet and Contaminated Clothing Bag. You may also use the pen to write your name and contents on the bag. You will be instructed whether to carry the bag through Decon or place it in the Contaminated Clothing Bag.





Remove snap-on ID bracelet and place on either wrist. Remove all clothing except underwear and place them in the Contaminated Clothing Bag. The bag is Bar Coded for identification purposes.





Put on white modesty garment and proceed to Decon line. Underwear can now be removed in privacy, and placed in contaminated clothing bag.



The nail brush and Shampoo and Body Bath are included to enhance the decon process. Be sure to wash off any possible contamination on and under the snap-on ID bracelet. (Removing if necessary, and then snap ID bracelet back onto wrist.)





Post-Decon Kit

Adult



Child



The bag marked Post-Decon has all "after-decon" components. Dry body with disposable towels. Don hospital gown and slippers and follow instructions of Response Agency. If needed, anti-microbial wipes are available in kit.

Adult Deluxe Decon Kit



Child Deluxe Decon Kit



Item	Description
90979	Deluxe Decon Kit

Item	Description
90981	Deluxe Decon Kit for Children

Patient Decon/Foul Weather Kit

The Patient Decon/Foul Weather Kit is designed to protect the privacy of the patient while providing the highest level of comfort during emergency decon procedures.

Our kit is divided into two kits in one. The first kit provides the patient with a large contaminated clothing bag and a smaller personal effects bag that includes an all weather pen. The all weather pen will assure the patient that his/her personal effects will be properly labeled without having EMS Rescue workers trying to find markers that will write on plastic.

Once outer clothing has been removed and placed in the bag, the patient will don the privacy gown to allow further removal of clothing with adequate privacy.

Booties and lightweight poncho provides additional privacy and weather protection while waiting in decon line. There is also a germicidal wipe, which though not made for skin, decon will disinfect any exposed area.

The second portion of the Patient Decon/Foul Weather Kit is designed to provide comfort and privacy to the patient after decon procedures.

This kit consists of 3 large decon towels, a liquid proof coverall, a poncho for weather protection, a pair of jersey gloves, and a pair of rubber gloves for added warmth. The rubber gloves would be donned over jersey gloves in the event it is cold and raining.

The Second kit also includes a pair of disposable booties and a pair of liquid proof booties, as well as five antimicrobial hand wipes, and a ten-yard roll of duct tape.
The duct tape is important because the suit is oversized so that it can be a one size fits all. To avoid tripping the booties can be pulled up tight to the suit and duct taped.

The kit is intentionally packaged in a zippered bag and labeled "KIT I Patient Decon/Foul Weather" and "KIT II Patient Decon/Foul Weather." It is our thought that the decon assistants would open the kit and hand out the Kit I to the patient, then close the zipper and send Kit II around to clean side of decon area so as not to contaminate the after decon clothing. If this procedure proves inconvenient, Kit I and Kit II can be packaged as separate kits.

Finished kits would be packaged in our Ram Pak Hazardous Waste Container. (Specifications on this container are included.)

The hazardous waste container is UN approved for transportation of hazardous waste. It will come preassembled on a UN approved pallet with an eight mil. liner.

It is our feeling that this packaging configuration is perfect for MASS DECON in that it maximizes storage space while providing a temporary storage container for contaminated clothing etc. once emptied.

*The price of the Hazmat Box does not increase the kit cost since a box is required for shipping purposes anyway. It does allow the decon area to be kept clean and can legally be used as a shipping container for the hazardous waste. A minimum order of one full Haz Waste Box (approximately 75 kits) is required to include the box without upcharge.



Item 55981*

This kit is packaged two kits in one. It contains all the components from Kit I, Pre-Decon, and Kit II, Post-Decon (listed below). Both kits are packaged in slider bags then placed in a vinyl zipper bag and shrink wrapped.



Item 90949

The Patient Decon/Foul Weather Kit can come packaged in our Ram Pak Hazardous Waste Container. This container is UN approved for transportation of hazardous waste. It will come preassembled to a UN approved pallet with an eight mil liner. It is our feeling that this packaging configuration is perfect for MASS DECON in that it maximizes storage space while providing a temporary storage container for contaminated clothing etc. once emptied.

Patient Decon/Foul Weather Kit I

- Contaminated Clothing Bag
- Personal Effects Bag
- Privacy Gown
- Disposable Booties
- All Weather Pen
- Germicidal Wipe
- Poncho

All contents are enclosed in a slider bag and then placed in a zippered vinyl bag and shrink wrapped.



Item 90947

Patient Decon/Foul Weather Kit II

- Coverall with Hood
- Poncho
- Jersey Gloves
- Rubber Gloves
- Disposable Booties
- 8 mil Vinyl Bootie with Elastic Top
- 6 Antimicrobial Wipes
- 1 Roll Duct Tape
- Three Large Decon Towels



Item 90948

Item	Description
90949	Patient Decon/Foul Weather Kit Combo
90947	Patient Decon/Foul Weather Kit I
90948	Patient Decon/Foul Weather Kit II
55981	Hazardous Waste Containers

Hospital PPE Kit



Chemical Protective Garment: Military garment designed to protect the wearer from all known chemical agents as well as a large variety of industrial gases. Used by NATO forces as well as most domestic military and civilian response agencies. This garment comes shrink wrapped, and a wrapped garment will have a shelf life of 10 years.
Hazmat Booties: 16" rubber boot cover, non slip bottom. 100% waterproof.
Nitrile Gloves: Nitrile Powder Free Ambidextrous Disposable Gloves.
Heavy Weight Nitrile Gloves: For extended chemical protection.
Chem Tape Strips: 6 Chem Tape Strips for sealing gloves and booties to suit.
Personal Hygiene Kit: One kit for cleaning and storing respirator.

Kit is packaged in a poly zippered bag.

Item	Description
90954	Tychem® F Hospital PPE Kit, Small
90969	Tychem® F Hospital PPE Kit, Medium
90955	Tychem® F Hospital PPE Kit, Large
90956	Tychem® F Hospital PPE Kit, X Large
90957	Tychem® F Hospital PPE Kit, 2X Large
90958	Tychem® F Hospital PPE Kit, 3X Large
90753	Tychem® F Hospital PPE Kit, 4X Large
90754	Tychem® F Hospital PPE Kit, 5X Large
91060	JetGuard® Plus Hospital PPE Kit, Small
91061	JetGuard® Plus Hospital PPE Kit, Medium
91062	JetGuard® Plus Hospital PPE Kit, Large
91063	JetGuard® Plus Hospital PPE Kit, X Large
91064	JetGuard® Plus Hospital PPE Kit, 2X Large
91065	JetGuard® Plus Hospital PPE Kit, 3X Large
91066	JetGuard® Plus Hospital PPE Kit, 4X Large
91067	JetGuard® Plus Hospital PPE Kit, 5X Large

Identification Snap Band



Item	Description
40084	Snap Band, PVC, Lime Green Identification Braclet

PPE Training Kit



1ea Instructions for Donning PPE Kit (In English and Spanish)
1rl Grey Duct Tape
1kt Personal Hygiene Kit
1pr 8mil Heavy Gauge Nitrile Inner Gloves
1pr Heavy Weight Chemical Resistant Outer Gloves
1ea Blue Coverall with Sealable Flap and Elastic Back
1pr Heavy Duty Latex Booties with Slip-Resistant Bottoms

Item	Description
90017	PPE Training Kit
90850	Instruction Card for Donning and Doffing in English and Spanish

Personal Hygiene Kit





Contents:
(1) Germicidal wipe (disinfecting respirator after use)
(6) Towels (drying respirator)
(3) Antimicrobial wipes (further cleaning)
(1) Large Slider bag for storing cleaned respirator

Item	Description
90951	Personal Hygiene Kit

Contaminated Clothing Box

- Regular slotted carton inside dimensions - 24" × 24" × 42" stitched
- Heavy "SC" Steel Stack™ double-wall construction
- 14 cubic ft. capacity
- Able to be stacked when filled to save space until disposal
- Boxes come knocked down flat, 50 per pallet
- Pallet size: 67 ½" × 49 ½" × 50"
- Decon bag sold separately (see 80408-33)



Item	Description
80709	Contaminated Clothing Box

Public Safety Kit *

Each Kit Contains



1 Nylon Carry Bag



1 Instruction Sheet for Donning PPE Kit (in English and Spanish)



1 JetGuard® PLUS or Tychem® "F" Chemical Protective Garment



1 Personal Hygiene Kit



1 Pair Nitrile Gloves



1 Pair Heavy Weight Chemical Resistant Outer Gloves



1 Pair Booties



6 Chem Tape Strips



1 CBRN or NBC Filter

Then a choice of



M95



North Escape Hood



3M™ FR-M40



MSA Millennium CBRN



North 54500



MSA Response Escape Hood

Item JetGuard®	Item Tychem®	Description	Size
90970	91970	M95 Kit	Small
90972	91972	M95 Kit	Large
90973	91973	M95 Kit	XL
90974	91974	M95 Kit	2XL
90975	91975	M95 Kit	3XL
Replacement Items			
52701	NBC Filter for M95 Mask		

Item JetGuard®	Item Tychem®	Description	Size
92035	92135	North Escape Hood Kit	Small
92037	92137	North Escape Hood Kit	Large
92038	92138	North Escape Hood Kit	XL
92039	92139	North Escape Hood Kit	2XL
92040	92140	North Escape Hood Kit	3XL

Item JetGuard®	Item Tychem®	Description	Size
90980	91980	3M FR-M40 Kit	Small
90982	91982	3M FR-M40 Kit	Large
90983	91983	3M FR-M40 Kit	X L
90984	91984	3M FR-M40 Kit	2XL
90985	91985	3M FR-M40 Kit	3XL
Replacement Items			
52026	FR-15 CBRN		

Item JetGuard®	Item Tychem®	Description	Size
90960	91960	MSA Escape Hood Kit	Small
90962	91962	MSA Escape Hood Kit	Large
90963	91963	MSA Escape Hood Kit	XL
90964	91964	MSA Escape Hood Kit	2XL
90965	91965	MSA Escape Hood Kit	3XL
Replacement Items			
52701	NBC Filter for Escape Hood		

Item JetGuard®	Item Tychem®	Description	Size
90291	91291	North 54400 Kit	Small
90293	91293	North 54400 Kit	Large
90294	91294	North 54400 Kit	XL
90295	91295	North 54400 Kit	2XL
90296	91296	North 54400 Kit	3XL
Replacement Items			
52637	NBC Canister for 54400		

Item JetGuard®	Item Tychem®	Description	Size
90271	91271	Millennium Kit	Small
90273	91273	Millennium Kit	Large
90274	91274	Millennium Kit	XL
90275	91275	Millennium Kit	2XL
90276	91276	Millennium Kit	3XL
Replacement Items			
52686	Millennium CBRN Canister		

*No guarantee of protection is implied. This equipment must be donned prior to exposure to be utilized to it's fullest capacity. If involved in an incident, don the protective equipment, and await instructions from local authorities before taking action.

Lightweight Portable Dry Toilet System



A truly portable, easy to use, and sanitary means of human waste disposal that sets up in seconds. The three legged, portable toilet folds into briefcase size, weighing only 7 lbs., yet is the same height as a standard toilet. Special degradable, puncture resistant, landfill approved bags contain a powder that gels liquids, catalyzes decay, and removes odor. The complete system includes: the portable toilet; 15 waste bags with powder, toilet paper, hand sanitizer, and zip close disposal bag; a floorless, 6' 6" × 4' × 4' privacy tent with three closable windows; and a backpack. Tent now includes ground secure flaps on three sides and 8" taller door. The backpack is specially designed to hold the entire portable toilet system, including a pocket for carrying used bags when necessary. The complete system weighs only 19 lbs.

Includes: 1 PETT® Toilet, 15 WAG BAG® Kits, a PUP™ Privacy Tent, and a TOTE™

Item	Description
90552	Portable Toilet System, D115SYB

THE PETT®
Portable Environmental Toilet



- Easy to use. No assembly required, sets up in seconds
- Same Height and Size as a Standard Toilet
- Folds into Briefcase Size with Dimensions of 19" × 14" × 5"
- SANITARY: Utilizes degradable waste bags (WAG BAG®) that gel Waste, neutralize odor and begin the decay process, which make this system spill proof and hygienic. Special design of seat flange keeps outside of waste bag clean
- STABLE: Three-leg design for stability on uneven terrain
- LIGHTWEIGHT: Weighs only 7 lbs.

Includes: THE PETT® (Portable Environmental Toilet) and three WAG BAG® kits.

Item	Description
90427	The PETT, D119PET

The PUP™
Portable Utility Pop-up Tent



- Sets up in seconds
- No assembly necessary - poles and connectors attached
- Stands 6' 6" tall, base 4' × 4'
- Weighs 6 pounds
- Has three screened windows with covers and zip close door
- Inside storage pocket
- Flap for shower
- No floor for sanitary reasons
- Ground secure flap on three sides

Item	Description
90438	The PUP, D117PUP

The WAG BAG® Kit
Waste Alleviation and Gelling



- Each WAG BAG® kit contains an outer zip-close disposal bag, waste bag preloaded with Pooh Powder™, toilet paper and a hand sanitizer
- Double-Bag System is made from a puncture resistant material
- Our non-toxic Pooh Powder gels waste, removes odors (no perfumes), and begins the decay process. Spill proof and Hygienic
- WAG BAG® kits are degradable and are approved for disposal in any garbage can
- Can be used in standard toilet when water or power is off

The WAG BAG® kits are used with THE PETT® (Portable Emergency Toilet) or by themselves for emergency and disaster planning, hospitals, home health care, nursing homes, emergency responders and firefighters. These kits are sold in 12 packs or 100 packs.

Item	Description
90468	The WAG BAG Kit (12/pk), D019W12
90469	The WAG BAG Kit (100/bx), D007W00

The TOTE™



- Carries entire toilet system
- Made with a sturdy black fabric and heavy duty zippers
- Padded straps
- Meets current airport carry on size with dimensions of 25" × 15" × 6"
- Has an expandable compartment to pack out used WAG BAG® kits.
- Separate storage area for unused bags

Item	Description
90444	The TOTE, D116TOT

Mobile Crisis Data Management

Electronic Mobile Crisis Data Management Suites enable you to remotely scan and track individuals or items in an MCI event or in everyday events. The system contains modules for tracking patients, people and inventory. Data is remotely collected via barcode scanner, mag stripe or RFID equipped handheld units that wirelessly transmit data and camera images to the Command Console server. All data is aggregated and stored in the remote database ready for real-time analysis and reporting.

This software is a fully integrated patient tracking system for Surge Capacity and Mobile Field Hospitals. This unique system is designed to be utilized in a rugged environment that assists medical personnel in tracking patients, medications and treatment vitals in realtime over a wireless network.

Data Synchronization
The Patient Tracking Software allows for wireless data synchronization. If the handheld device is out of range of available networks the data is stored locally on the user device, once within range all data is uploaded. All data storage, transmission and access will be in accordance with the Health insurance Portability and Accountability Act of 1996 (HIPPA).

Patient Tracking Kit MCMS 3 Unit Bundle



Bundle Includes
3 HHP Dolpin 9500 Mobile Computer
3 HHP 9500 Charging/Comm Kit USB
1 9500 Multi-Family 4 Battery Charging Station Kit
4 9500 Extra Battery
1 Windows XP Professional Laptop
1 802.11 × Wireless Access Point
1 MCMS Patient Tracking License
3 MCMS Handheld License
4 Hours Phone Support
Webinar Training

Item	Description
A36228	MCMS 3 Unit Bundle, SPT-BLD3-9500

Patient Tracking Kit MCMS 3 Unit Bundle and Bread Crumb® SE



Bundle Includes
3 HHP Dolpin 9500 mobile computer
3 HHP 9500 charging/comm kit USB
1 9500 multi-family 4 battery charging station kit
4 9500 extra battery
1 Windows XP Professional laptop
1 BreadCrumb® SE 802.11 × wireless mesh router
1 MCMS patient tracking license
3 MCMS handheld license
4 hours phone support
Webinar training

Item	Description
A36230	MCMS 3 Unit Bundle and Bread Crumb® SE, SPT-BLD38CSE-9500

Patient Tracking Kit MCMS Starter Kit



Bundle Includes
1 HHP Dolpin 9500 mobile computer
1 802.11× wireless access point
1 MCMS patient tracking license
1 MCMS handheld license
1 Apple Airport Express
2 Hours phone support

Item	Description
A36227	MCMS Starter Kit, SPT-BLD1-9500

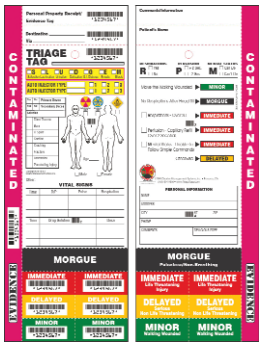
Five Person Trauma Kit



1	Nylon case
1	4 oz eye wash
4	Eye pads
5	5" × 9" surgipads
2	Cold packs
1	3" ace bandage
1	Penlight
10	Gloves
2	Ammonia inhalants
2	Thermal blankets
1	Biowaste bag
5	Triple antibiotic ointment
2	Water jell burn dressings
10	4" × 4" gauze pads
10	1" × 3" band-aids
4	4" sling
2	#4 airways
2	Triangular bandages
1	Scissors
1	1" tape roll
1	Vaseline dressing
1	Bulb syringe

Item	Description
90229	Five Person Trauma Kit, EM34

WMD Triage Tags



The new generation triage tag for today's emergency first responder. This is the Original Synthetic Paper All Risk™ Triage Tag from Disaster Management Systems endorsed by California Metropolitan Medical Response System (MMRS) cities.

Features
- Waterproof, bloodproof
- Military standard bar coding for tracking and personal property identification
- Evidence identification
- Presence of contamination
- Primary/secondary decon
- S.T.A.R.T. triage prompter
- Designed to integrate with Disaster Management Solutions' triageTrak™ software

Item	Description
90258	WMD Triage Tags (50/pk)

Aero® Foaming Soap System
The Leader in Foam Soap Technology

deb SBS



Aero dispensers are durable, fully guaranteed and can work with any of our 22 hand care products. Each cartridge fits quickly and easily into our ProLine 1-liter dispenser. ProLine dispensers come with a tamper-resistant lock and are ADA compliant. They may be ordered in a wide range of standard designs and are available in an array of colors. Customized printing is also available.

- Product cartridges are easy, hassle-free and quick to load and change out
- Sealed cartridge and pump assure purity of product
- Dispenser shell of heavy-duty ABS plastic ensures durability
- Key locks prevent vandalism; dual locks provide easy access
- Customized dispensers can feature company logos, reorder details or safety themes



Many cover and imprint colors are available. Minimum quantity required.

Item	Description
A20530	Germy Germ Dispenser (1 liter)

Sanitizer Dispensers

GOJO Purell





- Refill snaps securely into place with an audible click
- Sanitary-sealed collapsible-bottle refill keeps germs out
- Helps keep dispenser and sink area clean
- Fresh dispensing valve with every refill

Item	Description
Touch Free Dispenser	
A62470	GOJO® TFX™ Touch Free Dispenser, Gray
A62471	GOJO® TFX™ Touch Free Dispenser, Black
A62474	PURELL® TFX™ Touch Free Dispenser, Gray
Touch Free Dispenser Refills	
A62475	PURELL® TFX™ Foam Hand Sanitizer, 1200ml
A62477	GOJO® TFX™ Green Certified Foam Hand Cleaner, 1200ml
A62479	GOJO® TFX™ Premium Foam Handwash with Skin Conditioners, 1200ml
A62480	GOJO® TFX ™ Premium Foam Antibacterial Handwash, 1200ml
Manual Dispenser	
A62481	PURELL® FMX-12™ Dispenser, Gray
Manual Dispenser Refills	
A62482	PURELL® FMX™ Foam Hand Sanitizer, 1200ml

PURELL® Instant Hand Sanitizer

Purell



America's #1 instant hand sanitizer. Kills 99.99% of most common germs that may cause illness. Works in as little as 15 seconds. No water or towels needed. Specially formulated with moisturizers to leave hands feeling soft and refreshed.

Item	Description
A41634	Instant Hand Sanitizer, 4 oz with Aloe
40074	Instant Hand Sanitizer, 8 oz Pump Bottle

PURELL® Sanitizing Wipes

Purell



All the germ-killing benefits of PURELL, America's #1 instant hand sanitizer, in a non-linting, durable wipe. Textured for superior cleaning. Sanitizes hands while wiping away light soils and dirt. Kills 99.99% of most common germs that may cause illness. Convenient, easy to use and ideal for offices, restaurants, health clubs or anywhere else germs may be.

Item	Description
A62485	Sanitizing Wipes, 35-Count Canister
A62487	Sanitizing Wipes, 175-Count Canister

PURELL® Instant Hand Sanitizer FST™ Military Bottle

Purell



Stay healthy and mission-ready with PURELL Instant Hand Sanitizer in the PURELL FST™ Military Bottle – now with biobased content.* Special side grips for easy one-handed dispensing. Flexible, lightweight design fits in pockets or pouches. Built tough enough for military use. Low infrared signature for night (NVG) operations. Alcohol-based. *PURELL Instant Hand Sanitizer with Biobased Content is certified by a third-party ASTM compliant test facility using the ASTM International Isotope Standard Method D 6866, in accordance with 7 CFR 2902.7(c).

Item	Description
A62483	Instant Hand Sanitizer FST™ Military Bottle

PURELL® Cleansing and Sanitizing Towel

Purell



America's #1 hand sanitizer in a large, durable antibacterial towel designed to look and feel like standard military equipment. The PURELL® Cleansing and Sanitizing Towel is the new standard in personal hygiene packaging for Military personnel. Cleanses, sanitizes and refreshes hands, even in the harshest, most remote environments. Designed for use in both tactical and non-tactical environments. Each pack contains 10 large (10x10.25 inch) towels in a re-sealable zipper pouch.

Item	Description
A62484	Cleansing and Sanitizing Towel

Decontaminable Haz-Mat Sked® Decon Units/Command Centers/Labs/Medical Units



Patients can be decontaminated while on HMD Sked. It's tough, compact, and versatile. 600 HMD Skeds store in a 3'× 8' × 7' high space. The HMD™ Sked stretcher is easier to use than any other Haz-Mat litter. Patients are rolled on straps, fastened, and HMD Sked is dragged out using very little effort!

Item	Description
40678	SK250 Haz-Mat Sked®

Disposable Decon System Medical Treatment and Patient Decontamination





The RMC Medical disposable decon system permits medical treatment and patient decontamination. It is portable and disposable and sets up in 60 seconds. Stored, it measures 24" × 15" × 4" and in use it measures 84" × 24" × 8". The system is lightweight (8 lbs), resistant to chemicals, and comes pre-assembled with PVC drain, hose and 5 gallon collapsible polyethylene container. A disposal bag with tie is included.

Item	Description
40679	PDS 5000H 5' hose (3/cs)

Heavy Duty Post Mortem Bags

Containment Bag



Leading Edge in Body Bag Innovation

The Containment Bag uses a clear inner layer, which allows viewing of the deceased without risk of contamination, fluid leakage, or odor.

- 15oz. 1000 denier PRV Material
- #8 envelope style double pull YKK zipper
- All seams are RF sealed (leak proof)
- Six heavy duty handles
- Clear layer of vinyl material for viewing the deceased without risk of contamination
- Reduces odor
- Increased body substance isolation
- Holds up to 800 lbs.

Item	Description
40159	Containment Bag

AED 10™



Designed for easy operation and quick deployment by the infrequent user, the AED 10 is a simple, proven solution for quick and easy response to cardiac emergencies.

- Text and voice instructions guide the user through the rescue
- Color-coded pads and illustrations ensure proper pad placement
- Escalating energy (200 J, 300 J, 360 J); energy protocol can be changed to meet specific needs
- High-performance battery delivers five years of standby performance or over 90 discharges at 360 joules
- Internal memory stores event data including ECG waveforms, time/date stamps, shock delivery and system actions
- Lightweight and compact—ideal for small spaces
- Compatible with major manufacturer defibrillator pads

Item	Description
A28588	AED 10™
A28590	AED 10™ IR Communications Kit with SmartLink™ Lite Software
A28591	AED 10™ Trainer

Plastic Defibrillator Wall Case



White case made of corrosion resistant ABS plastic and high visibility defibrillator graphics. Special features include: 6" × 10" window and right hand door opening. Three optional slide in shelves.

Item	Description
A25036	4400-D Plastic Defibrillator Wall Case (weight: 3 lbs)

Portable Defibrillator Case



Protect your portable life-saving AED with a case that is both air and water tight and constructed with the strongest ABS materials. Designed and manufactured in the U.S.A., this case provides the most protection in any environment. Other cases also available, call for details.

- Custom foam inserts in various gauges to properly protect your AED
- A silicon O-ring design seals out water, salt air, and dust
- Divider systems and lid organizers customized to your specifications
- Molded in rugged ABS material
- Panel mounting for fixed installations
- Limited Lifetime Warranty

Item	Description
A36342	Portable Defibrillator Case

Pedi-Pad Backboard Pad



It's the foam, anti-skid pad that provides proper alignment on any spineboard! Pedi-Pad works for kids!

- Economical method to stabilize children 8 years and younger
- Places the cervical spine in neutral alignment by elevating the pediatric patient's shoulder
- Works in conjunction with Sta-Blok™ or Speedblocks® Head Immobilization Devices

Item	Description
90618	701-00001 Pedi-Pad Backboard Pad (6/pk)

Branches Nationwide!

Our Own Fleet of Trucks Provide Fast Delivery to Your Office or Job Site

1,000s of Products in Stock

800-767-6933

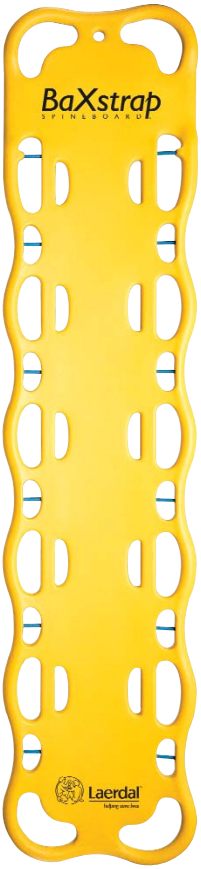
www.aramsco.com

Aramsco
A SAFEGUARD INDUSTRIAL COMPANY

BaXstrap™ Spineboard

The board that meets your most demanding needs

As a rescuer you want your spineboard to be comfortable for your patient, rigid and lightweight. Further you also want to store the board easily. The BaXstrap Spineboard provides this and is one of the lightest boards on the market. The contoured design allows the board to nest compactly. This unique feature also offers patients more comfort, making it less likely that they would move around and aggravate their injuries.



- No seams make it easy to clean and decontaminate
- Extra large handholds make it easy to grab, even with heavy gloved hands
- Raised handholds make it easy to pick up
- Pins are molded into the board, maximizing their strength
- Includes strap holes for pediatric patients, eliminating the need to use towels to fill the extra space between patient and strap
- BaXstrap can be used in water, in the mountains, at home or on the road
- Durable molded-in customized labeling available
- Radiolucent, MRI and CT scan compatible
- Latex-free





Can be easily stored. Three boards stacked together are only 5.5" inches thick.



Lifting is made easier for the rescuer with raised handholds designed to maximize ground clearance.

Item	Description
90615	BaXstrap Spineboard
90616	Premium Strap with 5" Loop-Lok™ Ends, 80" Strap
90617	Premium Strap with Swivel Speed Clipends, 88" Strap

Plastic Stretcher



Yellow high-density polyethylene shell, supported by a stainless steel outer rail, permanently attached with stainless steel semi-tubular rivets. Features molded runners, fully exposed outer rail, non-absorbent foam pad secured to stretcher and four patient restraint straps. Ideal for unusually rugged rescue situations such as industrial, mining or construction. Patent Pending.
Dimensions: 84.5" l × 24" w × 7.5"

Item	Description
A28582	Plastic Stretcher

Lightweight Basket Type Stretcher



Nylon web straps at chest, abdomen, thigh, and calf. Adjustable footrests for vertical lifting. Frame is ⅝" steel tubing; cross braces and runners 3/16" × ¾" flat steel. Basket is 18 gauge, 1" he×agon mesh netting.

- Chest width: 22.5"
- Abdomen width: 22"
- Dimensions: 80.5"l × 8"h
- Thigh width: 21.5"
- Carton size: 83" × 8" × 24";
- Weight: 31 lbs
- Calf width: 20.5"

Item	Description
41999	Basket Stretcher

Break-Away Plastic Stretcher



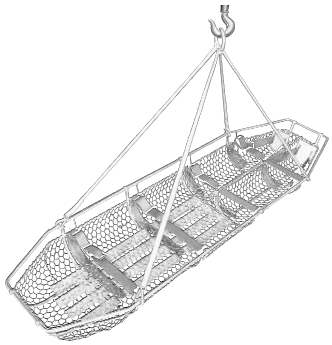
Yellow high-density polyethylene shell, supported by a stainless steel outer rail, permanently attached with stainless steel semi-tubular rivets. Features molded runners, fully exposed outer rail, non-absorbent foam pad secured to stretcher and four patient restraint straps.

Designed to rescue injured persons from locations where lengthy foot travel is mandatory. The stretcher breaks into two halves which can be back-packed to the point of rescue and assembled in seconds. Positive-locking quick-release pins secure two halves together.

Dimensions: 84.5"l × 24"w × 7.5" depth
Load Capacity: 1200 lbs.

Item	Description
A29870	Break-Away Plastic Stretcher

Stretcher Bridal Sling



The JSA-300-X Stretcher Bridle Sling provides horizontal or vertical lifting capacity of up to 2,000 lbs. Made of 1" nylon webbing resistant to moisture and fungus rot with forged snap hooks and 3" ID forged steel suspension ring.

Item	Description
A20261	Lift Bridle

Basket Stretcher with Wood Backing



Same as Item 41999 with the addition of a wood rack through back of trunk section and a strap adjusted foot rest.

Item	Description
A36086	Basket Stretcher with Wood Backing

Confined Space Stretcher



The new 19" width Confined space Splint Rescue Stretcher has been designed for rescues where space is confined. With steel, all welded rigid construction, which does not rely on the injured person to attend form or rigidity. Light in weight and ample in size. The basket is 18 gauge, 1" hexagon mesh netting. Nylon web straps for securing at chest, abdomen, thigh and calf. Supplemental accessories to facilitate special handling needs are available.

Dimensions: 81.5" l × 18.375" w × 7.75" depth

Item	Description
A16678	Confined Space Stretcher

Raven® Mass Casualty Rescue Litter



Raven® is a new, dynamic lightweight litter system that is specifically designed to address the special challenges that face today's emergency response teams. Raven® is ideal for a wide range of rescue operations such as tactical and wilderness, HazMat, and hospital-based disaster preparation.

Special Features
- Slip-resistant surfaces
- Highly chemical resistant
- Flame retardant materials
- Stainless steel fasteners
- Ergonomically designed handles
- Lightweight and durable
- US Air Force "Air Certified"

Folded	45" × 6" × 7"
Extended	90" × 22" × 6"
Weight	14 lbs. (6.3 Kg)
Payload	over 1200 lbs.

Meets NATO Requirements
US Patent 5,598,542
Foreign Patents Pending

Talon II® Ultimate Evacuation Litter



Talon II® is an innovative, compact and lightweight litter system that is preferred by special operations units. Ideal for a wide range of rescue operations such as tactical rescue, Close Quarter Combat (CQB), HazMat and rapid deployment teams. Talon II® folds into four (4) equal sections and weights only 15 lbs. This allows for easier storage in tight and limited areas, such as backpacks, utility boxes, rescue sleds and vehicle storage compartments.

Folded	20.25" × 7" × 6"
Extended	81.5" × 22" × 6"
Weight	15 lbs. (7 Kg)
Payload	1200 lbs.

US Patent 08/558,259
Foreign Patents Pending

The Raven® and Talon II® Features

Innovative Litter Cover: Raven® and Talon II® have an innovative, flame retardant, non-slip cover that allows hazardous chemicals to flow freely away from patients. This non-slip cover dramatically increases the rate of effective decontamination while reducing the inherent dangers such as cross-contamination, patients sliding off of wet backboards, and "pooling" of hazardous materials underneath the patient.
Safe Decontamination: Raven® and Talon II® are easily decontaminated when exposed to human body fluids, hazardous industrial chemicals and materials, and nuclear, biological and chemical (NBC) warfare agents.
Automatic Locking Hinge: Raven® and Talon II® do not use springs or complicated mechanisms. Simply opening our litters automatically locks the hinges—guaranteed!
Durable and Rugged: Raven® and Talon II® are designed for combat and other harsh environments. These litters are designed to take a massive amount of abuse while staying reliable and operational.
Tested and Approved: Raven® and Talon II® are tested and approved by both federal and private laboratories using Live Warfare Agents.

Item	Description
40622	Raven®

Item	Description
40623	Talon II®

Stingray® Emergency Litter/Transfer Unit



The Stingray® litter is constructed with a non-skid, flame-retardant monofilament polypropylene material. Two web straps secure the litter around the body, and six heavy-duty handles make it easy to carry. The special design allows rescuers to insert a 2" pole, such as pike poles, through the litter cover or to use debris through the outer handles. Additionally, Stingray® is ideal for decontamination roller systems and moving wet patients. Stingray® is easily washed with soap and water and is highly resistant to mildew, acids, alkalis, and penetration liquids. Tested and Approved Stingray® is tested and approved by both federal and private laboratories using Live Warfare Agents.

Folded	12" × 12" × 2"
Extended	78" × 24"
Weight	1.5 lbs. (0.7 Kg)
Payload	1000 lbs
Shelf Life	Indefinite



US Patent Pending

Item	Description
40624	Stingray®

Folding Decon Mesh Litter



This folding litter is ideal for patient transport during the decontamination process. The mesh design of its durable 18 oz. vinyl-coated nylon cover allows contaminated run-off to pass through, thus preventing a pooling effect from occurring under the patient and minimizing exposure to harmful gray water. Easily set up and compact for storing, this Medical Corps type litter is light in weight with shaped hardwood handles for a more comfortable transport. Optional Patient Restrainer Straps and a Replacement Cover are also available.

Open	87"l × 22"w × 4 ½"h
Folded	43.5"l × 3.5"w × 7 ½"h
Weight	12 lbs

Item	Description
91054	RDS0120 Folding Decon Mesh Litter

Converta Cot™ Portable Bed

- 4-position adjustable back
- 2-position adjustable footrest
- Size: 25" × 76" × 11 ½"
- Fits a person up to 6' 2"
- Weather-resistant polyester fabric won't stretch or lose its shape
- Made in China



Item	Description
A25872	Converta Cot™ Portable Bed

Forester™ Folding Cot



- 25" × 72" × 14"
- Sleeps a person up to 5' 10"
- Stow duffel bags, gear, or supplies out from under foot with this elevated cot
- Bi-fold, tubular frame design with collapsible legs
- Sturdy, aluminum construction with 600 × 300D polyester
- Stable, reinforced center leg brace
- Lightweight, aluminum frame
- Limited 3 year warranty
- Assembled in the U.S.A. of foreign and domestic materials

Item	Description
A23539	Forester™ Folding Cot

Shelter Bed

Ideal for isolation, disaster preparedness, post acute surge overflow or evacuation shelter. Includes a 4 position elevating back rest, 2" poly mattress with water proof cover and 650 lb capacity. System utilizes fold, stack and store technology with a mobile transport and storage cart that holds 6 beds per system.



Mattress Length	80"
Mattress Width	30"
Weight Capacity	650 lbs
Overall Length	84" in use
Overall Length	88"folded
Overall Width	36.5"
Bed Height Folded for Storage	8"
Height in Use	**Customer Specific**
Extra weight capacity model available	

Item	Description
A36341	SRB100 Shelter Bed

Westcart 10 Bed Rolling Storage Rack

The Westcart Rolling Storage and Deployment Rack holds 10 Westcots and facilitates stowing the Westcots and deploying them at the shelter or hospital. The Westcart rides on 3" casters, two stationery and 2 that swivel, for easy maneuvering. Its compact size allows it to pass through almost any doorway and be handled by most support staff. With the optional Dust Cover stored Westcots remain clean, dry and readily available.



Cart Dimension	37" w × 43" l × 82" h
Cart Weight	155 lbs
Freight Class	150
Cart Loaded with Westcots on Pallet Weight	455 lbs
Cart is clipped to standard 40 × 48 pallet and shrink-wrapped for forklift handling	

Item	Description
A18323	Westcot Rolling Deployment Rack
A18325	Westcot Dust Cover for Rolling Deployment Rack

The Westcot Medical Bed

The Westcot Medical and Surge Bed has been evolving since its first introduction in the early 1990's. Tube Enterprises takes the product to a new performance standard to help ensure that the bed meets the changing demands and expectations of providers and patients.



The new Westcot 400™ capacity rating of 400 lbs is achieved through design improvements in almost all of the subcomponents. Overall the Westcot looks the same, folds the same, weighs about the same and stores and deploys with ease, but now meets the needs of the Special Needs patients and citizens that evacuate to your shelter or portable hospital.

Other Design Improvements

- Leg Locks on ALL legs
- Safety Labeling
- Increased Tube Thickness
- Internal Structural Inserts
- High Strength Patient Restraint
- Clip 'n Close Closure Strap
- Operating Instruction Sheet

Bed Dimensions	18"h × 35"w × 81"l
Folded	8"h × 35"w × 42"l
Weight	30lbs

Item	Description
A18319	Westcot 400™ Military Grade Folding Cot

The TEMPS Bed
Triage and Emergency Management Preparedness System







The TEMPS system provides a unique solution to triage overflow resulting from a mass casualty incident. The TEMPS system consists of an easy to assemble, knock-down patient gurney providing immediate additional bed capacity and a color coded, visual indicator providing critical triage information to medical personnel at a single glance.
The TEMPS bed is constructed of the highest quality polyvinyl chloride resin structural tubing which will not chip, dent, crack, peel, fade, stain or sustain bacterial growth. The patient support sling is a vinyl coated polyester mesh and is tension adjustable for maximum patient comfort. The TEMPS bed has been developed in conjunction with leading experts in the field of trauma and emergency medical care and has been field tested in rigorous multiple casualty disaster drills in hospitals in several states.
TEMPS beds are stored horizontally in a mobile storage rack and can be moved to any location within the hospital or triage area. The TEMPS bed can be converted for rough terrain with optional all terrain balloon tires.

Options

- Snap-on I.V. Pole
- O2 tank holder
- CPR back board
- Patient chart holder
- Poly-backed, disposable, absorbent sheet for blood and body fluids
- Foam mattress overlay for extended use situations
- Isolation canopy
- Personal items collection bag

In conjunction with existing protocol, the color coded visual indicator assists in the rapid assessment and classification of patients according to the severity of their injuries. Standard colors include green, yellow, red and black. Other colors available upon request.

Features

- Creates immediate additional bed capacity
- Assembles in less than 30 seconds
- Utilizes 5" total lock casters
- Safety belts standard
- Designed to hold X-ray film tray
- Tension adjustable patient support sling
- Mesh sling ideal for "hot zone" wash down
- 5 position elevating backrest
- Narrow profile will not block halls
- Comfortable working height
- Carry straps

Overall Length	75" (6' 3")
Overall Width	25"
Working Height	31"
Standard Weight Capacity	300 lbs
Extra weight capacity model available	

Item	Description
40652	5 Each TEMPS Beds with Triage I.D. System and 1 Each Transport and Storage Cart with Dust Cover, TB500
40653	TEMPS bed with Triage I.D. System Attached, TB100
Options	
40654	Snap-on I.V. Pole, TBIV POLE
40655	Snap-on I.V. Pole, TBIV POLE
40656	CPR Back Board, TB CPR BOARD
40657	Patient Chart Holder
40658	Patient Personal Items Collection Bag, TB PATIENT BAG
40659	Isolation Canopy (Snap-on),TB ISO CANOPY
40660	Sand and Rough Terrain Chassis, TB RG CHASSIS
40661	Body Substance Isolation Sheet, TB ISO SHEET
40662	Egg Crate Mattress Overlay, TB OVERLAY

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www.aramsco.com

Mylar Blanket

NORTH Safety Products

Traps 80% of body heat to combat shock and hypothermia. Highly durable and visible.
56" × 84"



Item	Description
40829	Mylar Blanket, 04536

Space Blanket

- Mylar material helps to retain patient's own body heat
- Compact and lightweight for easy handling



Item	Description
A25714	EMS Space Blanket 52" × 84" (50/cs)

Comfort1™ Blanket

- Single-use durable polyester construction is strong yet soft
- Soft, warm protection from the elements



Item	Description
A25713	Comfort1™ EMS Blanket 50" × 84" (10/cs)

InstaKit™ Disposable Bedding

Custom fitted linen set that includes the following
(1) Comfort1™ blanket
(1) PocketFit™ sheet
(1) FlexAir™ pillow
(1) FlexDrape™



Item	Description
A27075	InstaKit™ Disposable Bedding (10/cs)

Air Activated Heating Stadium Blankets

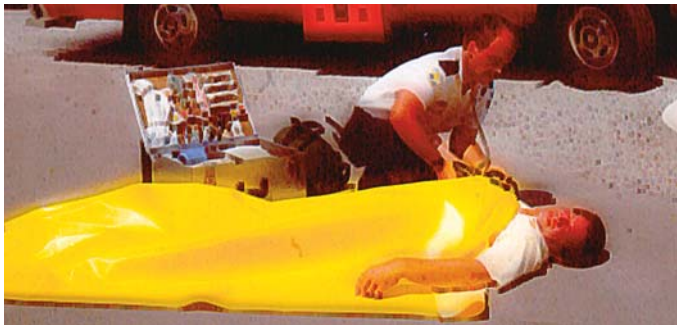
- 4' × 6' (1.2m × 1.8m)
- Keep two people warm at sporting events; excellent winter emergency blanket to keep on hand in all types of vehicles
- Soft, durable, 100% poly-fleece, and eight (8) built-in Body Warmer pockets strategically placed for critical heat distribution
- Royal Blue, Black, Sandstone
- Include eight (8) HEAT PAX™ Body Warmers (5540) that provide up to 16 hours of steady warmth to help defend against the bitter cold



Item	Description
A32609	Air Activated Heating Stadium Blanket

Emergency Blankets

High Quality Tissue/Poly Laminate Material



This high quality tissue/poly laminate emergency blanket that performs a variety of uses and meets today's cost concerns.

- Hygienic...each blanket is individually packaged
- Disposable...eliminates laundry costs
- Fluid resistant...poly backed protection
- Environmentally friendly...made with recycled materials
- Space efficient...folded to a convenient, compact size
- Easy to drape...comfortable to use
- Vibrant yellow color...provides maximum visual safety benefits
- Size 56" × 90" (folded: 7 ½" × 11 ½")

Not for Use Near Open Flame

Item	Description
40675	Emergency Blankets
40676	Disposable Stretcher Sheets 40" × 90" (50/cs)
40677	Disposable Stretcher Sheets 40" × 72" (50/cs)

Comfort One Disposable Sleeping Bag



FlexAir™ Pillow (included)

- Innovative space-saving design stores flat, inflates in seconds
- Ideal for head, limb and posture support
- Disposable—eliminates storage and laundry costs
- Also available separately, in two sizes

Disposable	Eliminates laundry costs; lasts up to 2 weeks
Compact/Portable	Packs into one-quarter of the space compared to a standard sleeping bag
Lightweight	One-third the weight of a standard sleeping bag
Convenient	Includes inflatable pillow; packs in resealable pouch
Comfortable	Layered construction provides comfort and warmth

Item	Description
A23447	ComfortOne™ Material: Nonwoven Color: Gray Size 36" × 92" (10/cs)

Series "AE" Plug-N-Patch Kit

Universal type kits for small to medium holes in any type low pressure vessel. Covers pin, convex, concave, and flat surface holes of all shapes. Covers cracks, hairline cracks and much more! Kits feature screw and "T" patches, ball and taper surface plugs, epoxy putty, lead wool, barrier tape, wood wedges, and all necessary tools and hardware. Series "AE" has a Twin "T" design patch and a ladder patch with straps to fill a forklift fork puncture. Available with non-sparking tools


Crowfoot Crack


3"×3" 'T' Patch Installed


Forklift Puncture



Item	Description
93005	Plug-N-Patch Kit

Series "C-1" Internal Pipe Plug Kit

"C-1" allows you to plug knocked-off pipes from 0 to 4" diameter. The 1 ½" to 4" sizes have pressure relief vents to help in getting the plugs in and seated under pressure. A valve and pipe-off set allows for the vented flow to be shut-off or piped to a recovery vessel. These kits contain: 10 standard pipe size plugs, from ¾" to 4", wooden plug and all necessary tools and hardware.



Item	Description
93008	Internal Pipe Plug Kit

Series "C-2" and "C-3" External Pipe Patch Kit


C-2


C-3

Combine this series of kits with a kit from our universal series, one from our pipe plugger series, and our large leak models and your team will have the most complete, most versatile collection of emergency leak control devices the Haz-Mat Industry has ever seen. This series contains a complete set of external pipe bandages covering nominal pipe sizes from ½" to 8". Complete with tools (standard or non-sparking) and carrying case makes for ease of handling and usage. Kit "C-2" contains 10 patches covering ½" to 4" pipes. Kit "C-3" contains 3 large patches covering 5", 6" and 8" pipes.

Item	Description
93006	External Pipe Patch Kit
93007	External Pipe Patch Kit
93009	External Pipe Patch Kit

Series "D" Universal Drum Repair Kit

Our drum repair kit; a smaller kit that contains components to repair punctures, cracks, gashes or surfaces rotting of containers which allow liquid or bulk hazardous material to leak.



Item	Description
93011	Universal Drum Repair Kit

STOP IT® Pipe Repair System



Use the best pipe leak repair team to get back on-stream in 30 minutes. FIX STIX™ epoxy and STOP IT® Pipe Repair Tape - the combination that solves pipe leak and joint reinforcement problems.

This in-field repair system can be quickly applied - one man, no special tools, no hot work - and it fully cures to a hard, durable repair in 30 minutes. STOP IT® Pipe Repair Tape is a knitted, fiberglass tape coated with special urethane resins that are water-activated. It is ideal for repair of pipe leaks and reinforcing pipe joints in any situation - even under water! FIX STIX™ is a hand-moldable epoxy which sets rock hard in only 20 minutes. It is perfect for plugging leaks, filling cracks and complex voids and offsets. Using FIX STIX™ in combination with STOP IT® Pipe Repair Tape increases repair capacity. So use both to assure a better repair.
Whether repairing an active, gravity-flow leak or a 2" hairline crack, teaming STOP IT® and FIX STIX™ will improve the quality of your repair. The STOP IT® Pipe Repair System is your dollar-saving ally in the battle against lost-production costs.








Item	Description
93013	STOP IT® Pipe Repair System (2" × 4' - white)
93014	STOP IT® Pipe Repair System (2" × 12' - white)
93015	STOP IT® Pipe Repair System (4" × 12' - white)

Emergency Kit "A"
For 100-150 lb. Chlorine Cylinders



The Chlorine Institute Emergency Kit "A" is manufactured to the design specifications of the Chlorine Institute. The Emergency Kit "A" contains devices to stop leaks at the valve, fusible plug, and in the side walls of chlorine 100 and 150 lb. cylinders which conform to specification DOT 3A480. Two instruction booklets explaining the application of each device are included. An instructional video for Kit A is also available.

Emergency Kit "A" Features Include

Device 1: Designed to contain leaks in and around the cylinder valve. Device #1 will also fit cylinders with oversized neck rings, cylinders with the valve protective housing attached and will also accommodate cylinders up to 15" in diameter with either bumped or foot ring cylinder bottoms.

Device 2: A clamping device to seal leaks in and around the cylinder valve fusible plug.

Device 8: A patching device designed for sealing leaks in the cylinder side sidewall.

Kit A also includes a variety of hand tools, inspection seals and additional sealing devices. All items are labeled with a part number, color coded red and stored inside a durable polyethylene tool box.

Item	Description
92027	Emergency Kit "A"

Emergency Kit "B"
For One Ton Chlorine Containers



The Chlorine Institute Emergency Kit "B" is manufactured to the design specifications of the Chlorine Institute. The Emergency Kit "B" contains devices to stop leaks at the valves, fusible plugs, and in the side wall of chlorine one ton containers which conform to specification DOT 106A500X. Two instruction booklets explaining the application of each device are included. An instructional video for Kit B is also available.

Emergency Kit "B" Features Include

Device 4: A capping device designed to contain leaks in and around ton container fusible plugs.

Device 12: Designed to contain leaks in and around the ton container valves.

Device 9: A patching device designed for sealing leaks in the ton container side wall.

Kit B also includes a variety of hand tools, inspection seals and additional sealing devices. All items are labeled with a part number, color coded yellow and stored inside a durable polyethylene tool box.

Item	Description
92028	Emergency Kit "B"

Indian Springs Specialty Products Inc.

Emergency Kit "C"
For Chlorine Tank Cars and Trucks



The Chlorine Institute Emergency Kit "C" is manufactured to the design specifications of the Chlorine Institute. The Emergency Kit "C" contains devices to stop leaks at the pressure relief device or angle valves of standard DOT 105J500W chlorine tank cars, DOT MC331 cargo tanks and DOT 51 portable tanks in chlorine service. Two instruction booklets explaining the application of each device are included.

Emergency Kit "C" Features Include

Device 6: Containment device designed to contain leaks in and around the angle valves. Device #6 includes two gaskets molded from Viton® to conform to the bottom of hood 6A.

Device 24: Containment device designed to contain leaks in and around the pressure relief device. Device #24 includes a lightweight, one-piece yoke design #11A for use over the safety relief valve. Device #24 also includes two gaskets molded from Viton® to conform to the bottom of hood 24A1.

Kit C also includes a variety of hand tools, inspection seals and additional leak containment devices. All items are labeled with a part number, color coded green and stored inside a durable polyethylene tool box.

Item	Description
92029	Emergency Kit "C"

Battery Acid Spill Kit



Spill Kit Includes
- (2 Quarts) KOLOR-SAFE® liquid acid neutralizer
- (10) 12" x 12" hazmat pads (S2-71)
- (1 pr.) Nitrile gloves
- (1 oz.) AQUALOCKIT® polymer
- (1) Poly apron
- (1) Trigger sprayer
- (1) Scoop with detachable scraper
- (1) Disposal bag and twist tie

Item	Description
57655	Battery Acid Kit

Chemical and Wastewater Classifiers

The First Step in Spill Control: IDENTIFY THE SPILL
Chemical and Wastewater Classifier Products are the perfect method for distinguishing risks in unknown spilled liquids. Classifier Strips quickly assist the responder in classifying the spill for proper treatment.



Chemical and Wastewater Classifier Kits Include
- 1 Plastic case
- 20 Classifier strips
- 2 Bobbin of polypropylene thread
- 1 pair Nitrile gloves
- 1 Laminated classifier chart

Item	Description
57623	Chemical Classifier Kit
57631	Wastewater Classifier Kit

Chemical Classifier Strips

- End Use Applications: Identify unknown liquid hazards in sewers, construction sites, accident sites, storage facilities, landfills, waste management, etc.
- Use Classifier Strips anywhere you need to identify and minimize the risk in handling spills

Chemical Risk	Limits of Sensitivity
Acid or Base(pH)	0-13
Oxidizers	1 mg/L (1 ppm)
Fluoride	20 mg/L (20 ppm)
Petroleum Product	10 mg/L (10 ppm)
Organic Solvent	
Iodine/Chlorine	1 mg/L (1 ppm)
Bromine	

Item	Description
57627	Chemical Classifier Strips (50/cs)
57628	Chemical Classifier Strips (10/cs)

Wastewater Classifier Strips

- Wastewater Classifier Kits are listed as a recommended product in the "Fiscal Year 2002 State Domestic Preparedness Program" (Section VIII, Appendix F) developed by the US Dept. of Justice-Office for Domestic Preparedness

Chemical Risk	Limits of Sensitivity
Acid or Base(pH)	0-13
Petroleum Product	10 mg/L (10 ppm)
Organic Solvent	
Hydrogen Sulfide	10 mg/L (10 ppm)
Nitrite	1 mg/L (1 ppm)
Nitrate	10 mg/L (10 ppm)
Fluoride	20 mg/L (20 ppm)

Item	Description
57691	Wastewater Classifier Strips (50/cs)
57692	Wastewater Classifier Strips (10/cs)

Vapor and Fuel Spill Control

PETROTECH™
...for the love of the environment

Shears
Through agitation hydrocarbon chains are 'sheared', creating optimum droplet size for bacterial metabolization to take place.

Encapsulates
Microscopic hydrocarbon droplets are 'encapsulated' in Petrotech which creates a new microbial food, and prevents rejoining and vaporization.

Disperses Microbial Food
Up to 100% of natural, environmentally indigenous bacteria are attracted to the spill site to accelerate biodegradation.



Some Petrotech™ Uses
- Soil remediation
- Water remediation
- Power components
- Sewage treatment plants
- Exterior building cleaning
- Fire departments
- Floor/plant maintenance
- Odor control
- Hazmat clean-up
- Machine parts cleaning
- Hand/cloths/carpet cleaning
- Spill Control (refineries, airports, railroads)
- Speciality fire fighting of depth fires such as tire and junkyard fires

For all Hydrocarbon Based/derivative/substrate Fuels
- Fire and Safety
- Industry
- Bioremediation
- Hazmat
- Marine
- Clean-Up

Item	Description
90246	1-Qt. Replacement Bottle of Petrotech™ Concentrate
90249	2.2 Gallon Replacement Canister Only
90248	Self-Contained Pre-Filled Pressurized Non-Aerosol Petrotech™ Unit (for very small spills)
90247	5 Gallon Pail Petrotech™ Concentrate
90251	55 Gallon Drum Petrotech™ Concentrate
90250	13 Gallon Wheeled Unit (empty)

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Broad Spectrum Response Technology





FAST-ACT™ (First Applied Sorbent Treatment - Against Chemical Threats) is a proprietary formulation of non-toxic nanomaterals that has been validated by both the U.S. Soldier Biological and Chemical Command (SBCCOM) and Battelle Memorial Institute for its ability to destroy chemical warfare agents. Additionally, FAST-ACT is effective for neutralizing a wide range of toxic chemicals. It is the only product capable of treating frequently encountered liquid spills and vapor releases while offering protection in the event of a chemical warfare agent release. This family of products has expanded utility for law enforcement, industrial, laboratory and public protection applications. FAST-ACT's dry powder formulation is highly effective over a wide range of environmental conditions including extreme heat and below-freezing temperatures.

Features and Benefits

- Destroys Chemical Warfare Agents (G agents, VX, HD)
- Effective against a wide range of toxic chemicals including:
  - Acids (including hydrofluoric acid)
  - Halogenated compounds
  - Phosphorus compounds
  - Acidic and caustic gases
  - Organic compounds
- Neutralizes vapor hazards
- Neutralizes liquid hazards
- Rapid-acting upon contact—Life-safety threat reduction
- Non-toxic, non-corrosive, non-flammable and environmentally friendly
- Dry powder formulation
- No premixing is required—No ancillary delivery system needed
- No special training required to deploy
- Effective over a wide range of temperatures and environmental conditions
- Accessories available for storage/mounting purposes

Item	Description
90688	4kg Pressurized Cylinder
90689	4kg Wall Mount
90690	4kg Vehicle Mount
90691	4kg Applicator Wand
90692	2kg Pressurized Cylinder
90693	2kg Wall Mount
90694	2kg Vehicle Mount
90695	1kg Pressurized Cylinder
90696	1kg Wall Mount
90697	1kg Vehicle Mount
90698	500g Shaker Bottle
90699	5kg Bulk Pail

PCB Decontamination Products by Integrated Chemistries, Inc.



Integrated Chemistries, Inc. offers patented products for extracting hazardous waste from non-earthen surfaces. Each product utilizes an easy foam application that adheres even to overhead and vertical surfaces. You will use far less product and labor than other methods, leaving dramatically less hazardous waste to dispose of after the cleanup.

CAPSUR® removes Polychlorinated Biphenyls (PCBs) from solid surfaces. In laboratory tests and customer use, CAPSUR® demonstrates extraction efficiency greater than 95% with old and new spills.

Item	Description
91072	Capsur® (5 gallon)
91073	Capsur® (55 gallon)

METRAXT® removes heavy and toxic metals from concrete, asphalt and metal, with excellent extraction efficiency.

Item	Description
91074	METRAXT® (5 gallon)
91075	METRAXT® (55 gallon)

PENTAGONE® is a multi-purpose decontamination product which removes Pentachlorophenols (PCPs), creosote, petroleum hydrocarbons, chlorinated hydrocarbons, polynuclear aromatic hydrocarbons and select pesticide and herbicide spills.

Item	Description
91077	PENTAGONE® (5 gallon)
91078	PENTAGONE® (55 gallon)

Model T Jr. Foamer®



Model T Jr. Foamer® products are easily applied with less labor and waste disposal resulting in significantly lower project labor costs.

Item	Description
91079	Decon Integrated Foamer
91098	T Jr. (15 gallon)

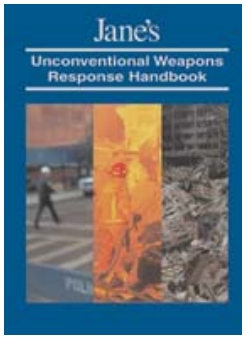
Black Light Lamp



Introducing a new inspection method to ensure that all available cleaner product is completely removed! Elimination of waste is our top priority! Inspect contaminated surfaces with our exclusive black light lamp. Contaminated cleaner will be visible as a gold spot that can then be removed. With immediate inspection, you will be able to ensure quality control and highly effective environmental cleanup.

Item	Description
91099	Black Light

Jane's Unconventional Weapons Response Handbook



This spiral-bound handbook provides first responders with the essential information they need to recognize and respond to the terrorist and criminal use of unconventional weapons.

The detailed checklists and procedures enable responders to plan for, respond to and recover from incidents involving unconventional threats whether radiological dirty bombs, pipe bombs, vehicle bombs, surface-to-air missiles, nuclear devices or directed energy weapons.

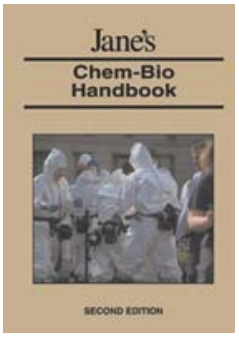
Item	Description
90302	Unconventional Weapons Response Handbook

Jane's Chem-Bio Handbook

Equip your first responders with this essential guide to the critical response requirements of a Chem-Bio attack.

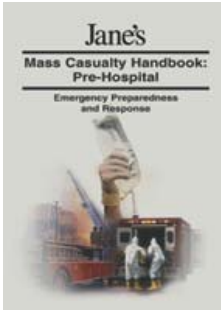
Jane's Chem-Bio Handbook - 2nd Edition, is available in other languages

- International
- Russian
- Spanish
- French



Item	Description
90305	Chem-Bio Handbook: 2nd Edition (United States)

Jane's Mass Casualty Handbook: Pre-Hospital



The Jane's Mass Casualty Handbooks provide essential information for emergency response personnel preparing for, responding to and recovering from mass casualty incidents.

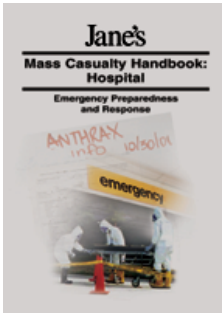
The pre-hospital handbook provides detailed information for the paramedics and other emergency responders on-scene. The hospital handbook is designed for physicians, nurses and other hospital-based personnel responding to mass casualty incidents, whether chemical, biological, nuclear or a major natural disaster.

Item	Description
90304	Mass Casualty Handbook Pre-Hospital

Jane's Mass Casualty Handbook: Hospital

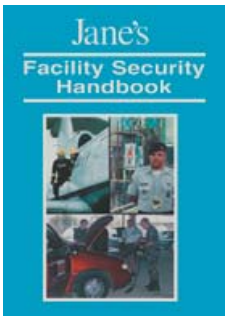
The Jane's Mass Casualty Handbooks provide essential information for emergency response personnel preparing for, responding to, and recovering from mass casualty incidents.

The hospital handbook is designed for physicians, nurses and other hospital-based personnel responding to mass casualty incidents, whether chemical, biological, nuclear or a major natural disaster.



Item	Description
90303	Mass Casualty Handbook Hospital

Jane's Facility Security Handbook



This handbook provides detailed and authoritative security procedures to protect facilities against terrorism and violent crimes. The handbook includes detailed security information for facilities including schools, offices, hospitals, utilities and transport systems as well as entertainment facilities and special events.

Item	Description
90307	Facility Security Handbook

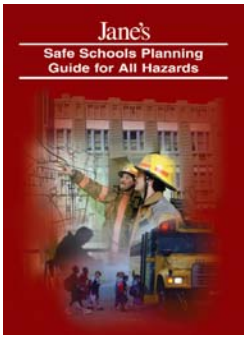
Jane's Crisis Communications

This complementary handbook provides detailed crisis communications procedures for organizations that could confront any type of crisis, whether a natural disaster, terrorism, workplace violence or a transport accident. With expert input from crisis beat reporters and emergency responders in the public and private sectors, the handbook offers guidance on interacting with stakeholders and working with the media to inform, direct and calm the public.



Item	Description
90309	Crisis Communications

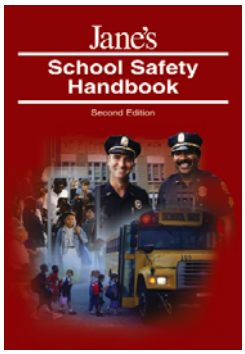
Jane's Safe Schools Planning Guide for All Hazards



The Jane's Safe Schools Planning Guide for All Hazards is a textbook-sized reference for school planners tasked with designing, implementing and maintaining a safe school plan. Written by four experts with decades of experience in the school safety field, this guide takes you step by step through prevention/mitigation, preparedness, response and recovery providing easy to use advice and checklists, as well as samples from safe school planning documents currently in use.

Item	Description
90310	Safe Schools Planning Guide

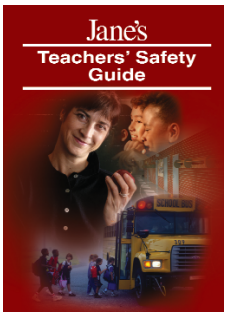
Jane's School Safety Second Edition



An update of the successful first edition, the second edition adds critical information about safe-school planning and response with primary focus on schools within the US. The Jane's School Safety Handbook: Second Edition is a quick reference guide for those involved in school safety planning, preparedness, prevention, response, and recovery. It provides easy to use information in a format that facilitates training or dealing with emergencies as they occur.

Item	Description
90306	School Safety Second Edition

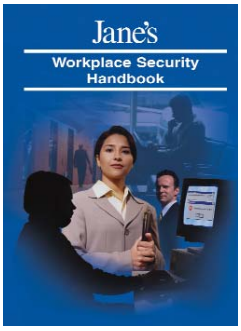
Jane's Teachers' Safety Guide



The Jane's Teachers' Safety Guide puts indispensable emergency response information directly into the hands of teachers. Intended for use by teachers in the classroom and other environments, this well organized and easy-to-use volume is packed with essential information to help teachers recognize and respond to dangerous situations.

Item	Description
90311	Teachers' Safety Guide

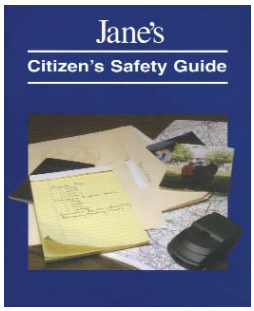
Jane's Workplace Security Handbook



Every employer has a responsibility to its employees, customers and shareholders to provide a secure working environment and to respond effectively and safely to security threats, including violence in the workplace, terrorist attacks, domestic and international travel security, information security and organizational recovery. This handbook provides essential information on planning for, responding to and recovering from security threats and incidents.

Item	Description
90312	Workplace Security Handbook

Jane's Citizen's Safety Guide



An all-hazards guide, the Jane's Citizen's Safety Guide provides easy-to-understand emergency procedures and checklists for individuals and families to prevent, respond and recover from incidents, such as natural disasters, mechanical accidents and human-caused emergencies including terrorism. It can help people build confidence to deal with critical needs, such as talking with children, dealing with loss, handling the media and providing volunteer assistance. Short, easy to comprehend paragraphs combined with comprehensive charts, checklists, real world quotations and case studies, Jane's Citizen's Safety Guide makes complex and difficult topics easy to understand.

Item	Description
90313	Citizen's Safety Guide

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1,000s of Products in Stock
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www.aramsco.com
Aramsco
A SAFEGUARD INDUSTRIAL COMPANY

# #

3M 4–6

A

ABACUS™ 69
accuro® 35
ACSI 61–62, 70
AED 10™ 80
Aero 79
Air Quality Test Meter 11
Air–Kaddy 11
Alconox 57
ALTAIR® 4 38
ALTAIR® 5 38
Ambient/LLR and Tactical Dosimetry 51
AP4C 46
APACC 46

B

Backboard Pad 81
Ballistic Vests 19
Battery Acid Spill Kit 88
BaXstrap 81
Bedding 86
Beds 84–85
Berms 56
Best/Flex Ultra 61
Biological Agent Detector 47
BIOSENSOR™ 2200R 47
Black Light Lamp 90
Blankets 86
Body Bag 80
Body Bath 57
Breathe Easy 6
Breather Box 12
Broad Spectrum Response Technology 90
Bungee Cord 62

C

Cabinet 71
Calibration Gas 36
Canisters 4
CAPSUR 90
Cart 71
Cartridges 4
Cascade Systems 9
CDS Kit 44
Chemical Agent Detector Kit 41
Chemical Agent Detector Simulator Training Kits 42
Chemical Agent Liquid Detectors 43
Chemical Agent Vapor Detector 42
Chemical and Wastewater Classifiers 89
Chemical Classifier Strips 89
Chemical Protection Apparel 22
Chemical Warfare Agent Assessment Kit 46
Chemical Warfare Agent Kit 45
Clothing 13–27
  Ballistic Vests 19
  Chemical Protective Apparel 22
  Chemical Resistant 13, 16, 23
  Cooling Vests 24
  Gloves 24
  Level A 23
  Level B 13, 16
  Outer Carrier Vests 20
  Vests 19–20, 24, 26–27
Clothing Box 75
CMS Analyzer 35
CMS Chip 35
CO Monitor 12
Combat Helmet 21
Comfort One Disposable Sleeping Bag 86
Comfort1™ Blanket 86
Communication Kits 32
Communications 28–34
Con–Space 28–32
Containment Bag 80
Containment Berms 56
Contaminated Clothing Box 75
Converta Cot™ Portable Bed 84
Conveyor Systems 61
Cots 84
CSVAi Voice Amplification Unit 31
Cupola 58
CUPOLA 59–60
Cylinder Refill Systems 11

D

DeCon Spray Hoop 55
Decontamination 55–78
Decontamination Products 90
Defibrillator Case 80
Detection 35–54
  Biological Agent 47
  Chemical Agent 41–46, 48
  Gas 35–38
  Inspection 53–54
  Multi–Threat 40
  Radiation 51–52
Disposable Decon System 80
Dosimeters 52
Dräger 35, 44
  Detection 35, 44
Drum Repair Kit 87
Duffel Bag 20
DuPont 16

E

Emergency Blankets 86
Emergency Escape Respirators 1
Emergency Shower 57
EMS 79–86

Enpac 56
Escape Hoods 1
ESP® II 34

F

FAST–ACT 90
Fiberlock 69
Filtration System 62
Filtration Systems 12
First Aid 79–86
Floor Matting 62
Foamer 90
ForceField® Body Armor 19
ForceField® Echo Armor System 19
Forester™ Folding Cot 84
FSI 68

G

Galaxy® 38
Gas Detector 35, 37–38
Gas Mask Bag 3
Gas Miser® 36
Gloves 24
GOJO 79
Guide Books 91–92

H

Hand Sanitizer 79
Hand Sanitizers 79
Handbooks 91–92
Haz–Mat Sked 80
HazCat 43
Hazmat Pool™ 56
Hazmat Suit 23
HAZMATCAD™ 48
HAZMATCAD™ PLUS 48
Heat Wagon 63
Heaters 63
Helmet 21
HICS Vests 26
Hood Bag 3
Hospital Crash Cart 71
Hospital PPE Cabinet 71
Hughes 58–60, 63
Hydration System 3

I

Identification Snap Band 75
ILC Dover 1, 7
SCape CBRN 30 1
Sentinel XL 7
Inspection Equipment 53
InstaKit™ Disposable Bedding 86
Integrated Chemistries, Inc. 90
Isolation Systems 69

J

Jane's Handbooks 91–92
JetGuard 13
Junkin 82

K

Kits 72–76
Biological Personal Protection 72
Decon 73
Foul Weather Kit 74
Hospital PPE 75
Law Enforcement Personal Protection 72
Patient Decon 74
Patient Tracking 78
PPE Training 75
Public Safety Kit 76
Trauma 78
Universal Precautions 72
Victim Transport 72
Kontrol Kube® 69
Kwik–Draw® 44

L

Laerdal 81
Lakeland 23
Lamp 90
Black Light 90
LANX 22
Lightweight Outer Carriers 20
Litter 83
Loudspeaker Systems 33

M

METRAXT 90
MGP 51–52
Mirrors 53, 54
MITI 55–56
ML Kishigo 26–27
Model T Jr. Foamer 90
MSA 1–3, 7–8, 19–21, 34, 36–40, 44–45, 47–48
Advanced Combat Helmet 21
Body Armor 19
Communication Systems 34
Detection 36–40, 44–45, 47–48
Escape Training Hood 1
Hood 3
Lens Outsert 3
Millennium 2
Outer Carriers 20
PAPR Kits 7
Responder 7
Safe Escape™ CBRN 1
Ultra Elite 8
Multigas Detector 37–38

N

Non–Sparking Tools 65
North 5, 86

O

Outer Carriers 20
Outlet Hose 62

P

PAPR 6
Paraclete® RAV (Releasable Assault Vest) 19
Patient Roller System 61
Patient Tracking 78
Patient Transport 80–83
PCB Decontamination Products 90
PENTAGONE 90
Personal Protection 13–27
Petrotech 89
PETT® 77
Phantom Push–to–Talk Throat Mic 30
Pipe Patch Kit 87
Pipe Plug Kit 87
Pipe Repair System 87
Plug–N–Patch Kit 87
Pool Riser Platform 56
Pools 56
Portable Air Systems 10–12
Portable Dry Toilet System 77
Portaflex® 58
Post Mortem Bags 80
PPE Cabinet 71
Pressure Test Kit 23
Proengin 46
Pump 62
PUP™ 77
PURELL 79
Push–to–Talk Radio Accessory 29
Push–to–Talk Throat Mic 30

R

Radiation Monitoring System 51
Radio Accessories 28–31
Radio Kits 32
Radio Systems 34
Radiological Kits 51
Raven 83
Reeves 61, 64, 66–68
Reference Guides 91–92
Respiratory 1–12
- 3M 4–6
- Air Cart 10–11
- Air Filtration Systems 12
- Air Pumps 12
- Air Quality Test Meter 11
- Air Systems 10–12
- Air Trailers 11
- Bottled Air Cart 10
- Bottled Air Trailers 11
- Cartridges/Canisters 4
- Cascade Air Breathing System 9
- CBRN 1, 2, 5, 7–8
- CO Monitor 12
- Cylinder Refill Systems 11
- Cylinder Storage 11
- Escape Hoods 1
- Full Facepiece 5
- Gas Mask 2, 5, 8
- Gas Mask Bag 3
- Hydration System 3
- MSA 1–3, 7–8
- PAPR 6–7
- RRPAS 5

Rigid Roller System 61

S

Safe–T–Zone® 57
SafeSite® 40
Sanitizer Dispensers 79
Scissors 62
Shampoo 57
Shelter Bed 84
Shelters 58–60, 66–68
Shower 57
Shower Hoops 55
Shower Systems 57
Showers 68
Sirius® 37
Sked 80
Sleeping Bag 86
Snap Band 75
Solaris® 37
SOUNDCOMMANDER 33
Space Blanket 86
Spill Control 87–90
- Acid Kits 88
- Chlorine 88
- Fuel 89
- Hazmat Chemical 90
- Hole Repair Kits 87
- Vapor 89
- Wastewater 89

Spineboard 81
Spray Hoop 55
SR65M Push–to–Talk Radio Accessory 29
SRVA Voice Amplification Radio Accessory 28
Stadium Blankets 86
Stingray 83
STOP IT 87
Stretcher 82
Submersible Pump 62
Supreme Pro 34

T

Tactical Hood Bag **3**
Talon II **83**
TEMPS Bed **85**
Tent Inflator **62**
Toilets **77**
Tools **65**
Topsider™ **69**
TOTE™ **77**
Trailers **70**
Trauma Kit **78**
Triage Tags **78**
Tychem® F **16**
Tychem® TK **23**

V

Vests **19–20, 24, 26–27**
Ballistic 19
Cooling 24
Heating 24
Incident Command 26–27
Lightweight Outer Carriers 20
Voice Amplification **28, 31**

W

WAG BAG® **77**
Waste Pool **55–56**
Wastewater Classifier Strips **89**
Water Filtration System **62**
Water Heaters **64**
Westcart **84**
Westcot **84**
Westcot Medical Bed **84**

Z

ZstatFlu® **72**

30381 24
30382 24
30383 24
30384 24
30385 24
40074 79
40084 75
40159 80
40208 27
40209 27
40210 27
40239 27
40289 27
40394 62
40570 3
40622 83
40623 83
40624 83
40652 85
40653 85
40654 85
40655 85
40656 85
40657 85
40658 85
40659 85
40660 85
40661 85
40662 85
40675 86
40676 86
40677 86
40678 80
40679 80
40681 24
40682 24
40683 24
40696 24
40697 24
40811 20
40813 20
40815 3
40816 20
40829 86
40847 24
40896 24
40898 24
40965 26
40966 26
40967 26
41999 82
44014 3
50189 23
50293 23
50604 23
50605 23
50606 23
50607 23
50608 23
50702 22
50703 22
50704 22
50705 22
50706 22
50707 22
50708 22
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51130 16
51160 16
51161 16
51162 16
51163 16
51164 16
51165 16
51166 16
52004 9
52011 9
52013 9
52014 9
52026 . . . . . 4, 76
52071 13
52072 13
52073 13
52074 13
52075 13
52076 13
52077 13
52078 13
52149 6
52384 6
52510 6
52514 6
52574 2
52637 76
52638 6
52656 3
52657 3
52658 3
52659 3
52660 3
52666 3
52685 4
52686 . . . . . 2, 76
52691 6
52692 6
52701 76
52716 4
52750 6
52751 6
52754 5
52755 5
52757 5
52759 1
52763 6
52764 6
52768 34
52782 5
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52902 21
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52906 21
52907 21
52908 21
54069 62
54381 62
54570 69
54571 69
54572 69
54573 69

55155 62
55168 62
55203 9
55206 9
55241 9
55272 9
55274 9
55282 9
55330 62
55351 8
55352 8
55353 8
55354 8
55355 8
55356 8
55372 ..... 37, 39
55373 ..... 37, 39
55374 39
55375 39
55376 ..... 37, 39
55377 ..... 37, 39
55378 ..... 37, 39
55379 ..... 37, 39
55381 37
55382 37
55383 37
55384 37
55385 37
55455 62
55503 69
55504 69
55517 10
55518 10
55519 10
55521 10
55522 10
55523 10
55524 10
55543 10
55544 10
55571 33
55572 33
55573 33
55574 33
55599 ..... 36, 37
55600 ..... 36, 37
55610 9
55611 9
55612 9
55615 9
55616 9
55654 54
55655 54
55656 54
55657 54
55658 54
55659 54
55759 11
55760 11
55761 11
55762 11
55763 11
55764 11
55765 11
55766 11
55826 37
55830 37
55834 37
55838 37
55842 35
55844 45
55845 45
55847 35
55850 42
55851 41
55852 43
55853 43
55854 43
55855 41
55856 42
55857 62
55864 45
55865 44
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56289 23
57114 57
57577 71
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58155 35
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58170 35
58178 35
58183 35
80709 75
80710-54 ..... 4, 6
90009 72
90012 72
90017 75
90043 61
90052 60
90053 66
90055 64
90056 64
90057 62
90064 ..... 59, 60, 62
90091 56
90092 56
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90217 63
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90229 78
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90427 77
90438 77
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90753 75
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90850 75
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91105 61
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91121 62
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91126 61
91127 61
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91131 60
91271 76
91273 76
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92137 76
92138 76
92139 76
92140 76
93005 87
93006 87
93007 87
93008 87
93009 87
93011 87
93013 87
93014 87
93015 87
94119 5
94120 5
94123 5
A15448 39
A15649 35
A15726 35
A15736 12
A15769 35
A15788 1
A15789 1
A15907 12
A15994 35
A16455 39
A16462 39
A16471 39
A16678 82
A17463 57
A17742 1
A17832 35
A18319 84

A18323 84
A18325 84
A18524 39
A18526 39
A18529 39
A18531 39
A18542 39
A18550 39
A18553 39
A18554 39
A18555 39
A18558 39
A18559 39
A18577 39
A18580 39
A18594 36
A18627 36
A18629 36
A18637 36
A18638 36
A18639 36
A18641 36
A18642 36
A18793 72
A18836 46
A18862 46
A18864 46
A19328 68
A19841 6
A20133 12
A20261 82
A20530 79
A21289 39
A21290 39
A21943 10
A22932 35
A23447 86
A23539 84
A24333 1
A24351 7
A25036 80
A25106 39
A25713 86
A25714 86
A25872 84
A26362 72
A26639 39
A27075 86
A27670 39
A27737 39
A27747 39
A28113 39
A28114 39
A28115 39
A28582 82
A28588 80
A28590 80
A28591 80
A29870 82
A30369 7
A30593 30
A30653 57
A31333 34
A31962 34
A32609 86
A33347 39
A33652 6
A33654 6
A33657 6
A33659 6
A33886 31
A33977 39
A35712 28
A35713 29
A35714 32
A35715 32
A35716 32
A35717 32
A35742 12
A35743 12
A35744 12
A35745 12
A35851 57
A35853 67
A35854 67
A35855 68
A35856 70
A36086 82
A36135 27
A36136 27
A36227 78
A36228 78
A36230 78
A36318 7
A36320 7
A36322 7
A36323 7
A36324 7

A36325 7
A36329 47
A36341 84
A36342 80
A36347 7
A36352 47
A36353 47
A36354 47
A36355 47
A38793 39
A39102 39
A41634 79
A45795 12
A56899 38
A57161 38
A57864 34
A57940 34
A60311 39
A61201 39
A62347 68
A62404 7
A62406 7
A62433 38
A62435 38
A62437 38
A62438 38
A62442 39
A62445 39
A62447 39
A62449 39
A62450 39
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A62523 20
A62524 20
A62525 20
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A62528 20
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A62530 20
A62531 20
A62550 34
A62551 34

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Thorofare, NJ 08086
800-767-6933

Philadelphia
3526 Dunksferry Ave
Bensalem, PA 19020
800-692-8557

New York City
18 India St
Brooklyn, NY 11222
800-767-4359

Chicago
1201 Gateway Dr
Elgin, IL 60124
800-767-9981

Boston
23 Northwestern Dr
Salem, NH 03079
800-767-1767

Hartford
2 Toelles Rd
Suite 13
Wallingford, CT 06492
800-767-7731

Los Angeles
1951 South Parco Ave
Suite E
Ontario, CA 91761
800-767-4620

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3210 E. Roeser Rd
Suite 7
Phoenix, AZ 85040
800-767-9372

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800-767-8392

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Dallas, TX 75247
800-767-5744

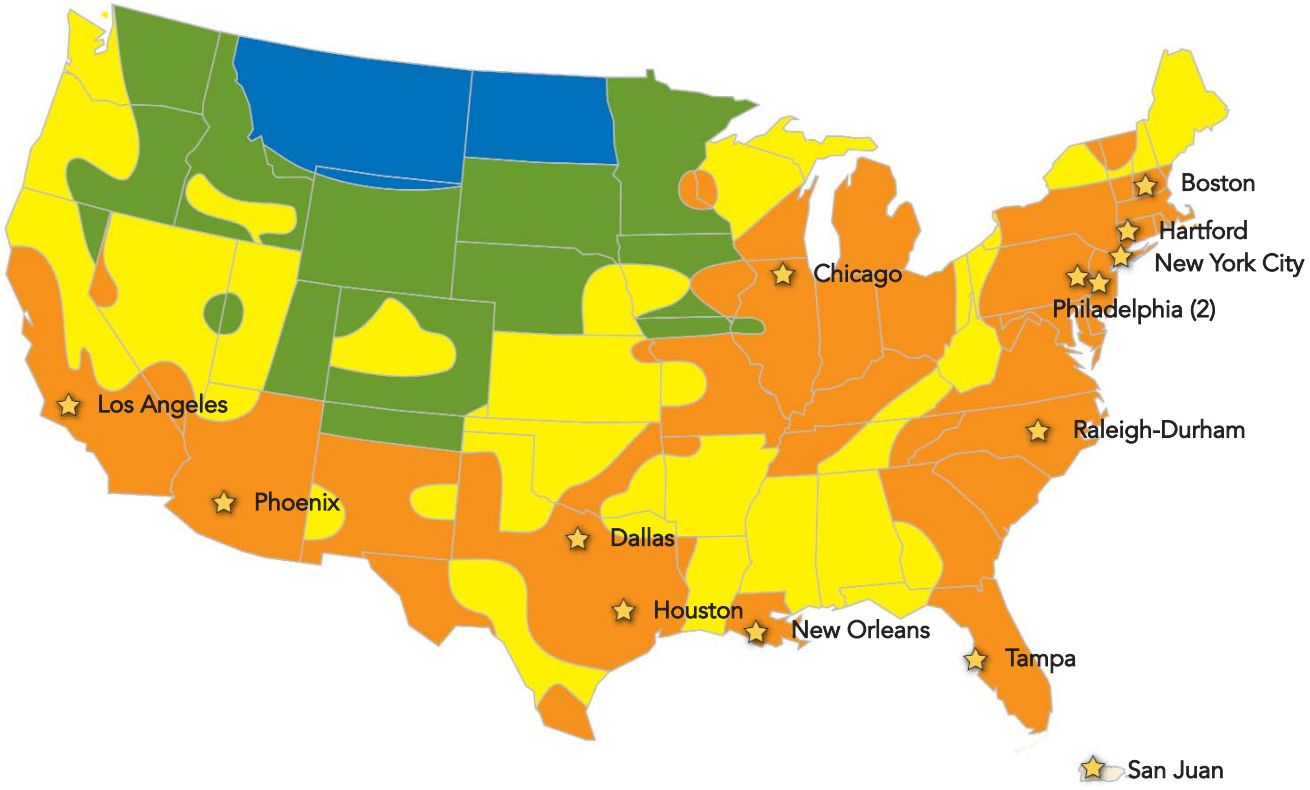
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Metairie, LA 70001
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Tampa
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Winter Haven, FL 33880
800-767-1225

North Carolina
1000 Parliament Ct
Suite 500
Durham, NC 27703
888-941-6368

Puerto Rico
Zona Industrial Calle A1
Arecibo, PR 00612
787-878-8200

Delivery Time



★ Aramsco Locations

1 Day Delivery
2 Day Delivery
3-4 Day Delivery
4-5 Day Delivery

General Ordering Terms and Conditions

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All stock products are delivered FREE within our local delivery zones (usually a 50 mile radius of our local branches) to commercial customers. Delivery points outside of our local delivery zones, freight charges will apply unless otherwise agreed to by Aramsco. For special order, non-stock products and factory direct orders, freight charges may apply regardless of shipping location. All cataloged items are not stocked in every warehouse therefore additional shipping time and charges may be required. In times of historical high fuel prices, we reserve the right to add a fuel surcharge on all orders.

Payment Terms



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Aramsco reserves the right to charge a restocking fee on returns other than defective or shipping errors. We carefully fill and pack every order. In the rare event an item is missing or received damaged, please call 1-800-767-6933. Special Order and Non-Stocked items are considered NOT RETURNABLE to Aramsco and will be subject to the terms and conditions from our suppliers, including freight charges.

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Unless a valid sales tax exemption certificate is provided in advance of the order, customers are responsible for all applicable local and state sales taxes.





































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